The Oldest Agricultural and Live Stock Journal in the Mississippi Valley ESTABLISHED 1848

PUBLISHED WEEKLY BY COLMAN'S RURAL WORLD PUBLISHING COMPANY.

Sixty-Sixth Year.

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Volume LXVI. No. 10.

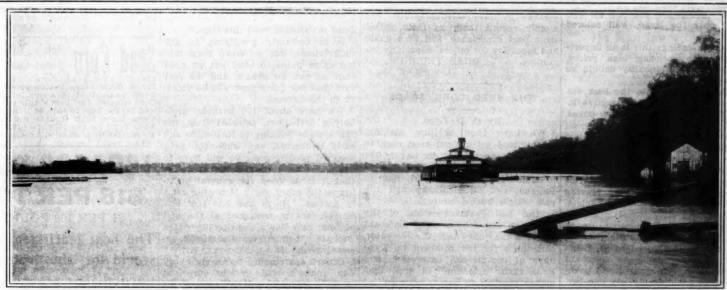
### Is The Present Generation More Rugged?

and there is likely some truth in this

Editor RURAL WORLD: Many was a laborious job for the feminines. yore hardly had time to read novels, that they kept this knowledge to thempeople think that men and women Quite a number of young ladies skill- for after a hard day's work in win- selves. of former ages were more rugged and ed in needlework found remunerative ter they would sit for hours by a roar. Butchering on the farm was a much strong than those of the present day, employment by going from house to ing log fire knitting mittens, stock- more laborious job for both men and house singly or in pairs to do the ings and other useful articles. How. women three quarters of a century sewing in families where female help ever, those who were so inclined, man- ago than it is now, for most well to idea, but at the same time we know was scarce. Almost every small vil- aged by using their spare fragments do farmers in many localities killed that the people who lived long ago lage had its tailor shop where good of time in the perusual of good solid a beef cow and from four to ten large were not so much inclined to study goods were made up and the tailor reading matter to become as intellighous on the same day. People had labor saving devices as they are at often cut out goods for the laboring gent as the ladies of our day. There not learned at that time how to sell the present day. In the distant past man's wife to make up for everyday was one big job that these women of off all their animals in the fall and it was considered by some that to wear. August was a favorite month old got rid of and that was fruit can-then buy back their meat in small husband one's strength was a sure for the village shoemaker to come ning, for so far as I know, the people driblets in the spring and summer. sign of laziness, and the children of and make up shoes and boots for the of our country knew nothing about Our ancestors were great providers, such parents were taught to do every-families, using the barn for a shop the canning business until a few years and large quantities of mincement, thing by main force, and they often and boarding with the family. The before the Civil War. I have learned sausage, head-cheese, dried beef and took the hardest way they could find boots and shoes he made would wear from some source many years ago, other provisions were stored away to perform a piece of work. I have everlastingly, as well as turning slush that those ancient inhabitants who often heard my father say that when and water, for they had not learned dwelt in the cities of Pompei and he was a boy, his father would not then to spoil hides by hasty tanning. Herculaneum near a great volcano, let any of his children use a hay fork Some two or three dozen sheep and who were suddenly buried deeply

for future use.

I will try to describe the process of making candles by dipping. I re-Some two or three dozen sheep and who were suddenly buried deeply turned from school one day when I



SCENE AT CREVE COEUR LAKE, ST. LOUIS COUNTY.

in the hay mow, but that they must were kept on most farms for the pur- under the overflowing stream of hot was a very small boy and found my and not be so lazy.

up of garments for a large family industrious housekeepers in days of the time of the great calamity, and

throw the hay back with their hands, pose of making winter clothing for lava that was erupted from the cra- mother sitting on the back porch the family. At our plantation we ter of the volcano, were the only in- dipping candles. She had a large tub In days long ago it was customary drove the sheep to the Delaware river habitants of our earth who knew any- near her which was nearly full of In house cleaning in the spring of late each spring to give them a wash, thing about the canning business to warm water, into which she had the year to give the walls and ceil- and in a few days when the wool be- preserve edibles. The archaeologists thrown a quantity of melted tallow. ing of the sitting room and kitchen came dry, the boys sheared them, who directed the excavations found Within reach was a small scaffold on and sometimes the bedrooms a good and I had to help catch and hold canned goods amid the ruins of these which she had arranged some 30 or coat or two of whitewashing, and the them, and of all work I ever did do, ancient cities that had been buried 40 canes that were each about three work overhead was a hard job, espethis was the most disgusting, as the under lava for more than 1600 years. feet in length, and from these sticks, cially on a person's neck, but it was smell of them almost sickened me. The work of excavation was com-wicks a foot or more long, were twist-considered that the lime made the After the wool was clipped the wom-menced in 1755, but the fruit cans ed and left to hang down from them, rooms more healthy than to paper en did the rest of the work, except were not discovered until nearly a there being a dozen them. I have not seen any white the carding and weaving, which was century afterward. Perhaps Jacob a cane, so that several hundred canwashing done indoors for nearly six- done at a water power grist mill. The Faith or some other Circler can tell dies could be made at one time. The Ready-made clothing did not appear sometimes colored by the women menced in our country. I have under- and the wicks dipped into the liquid In the stores until about 1854, and folks, but I do not know as to the stood that the inhabitants of those and then placed back on the scaffold before the sewing machine came into process in coloring. A woman's work buried cities knew all about the can- to remain there a few minutes until seneral use, the cutting and making is never done and I think that those ning process in days long anterior to the coat of tallow hardened, when

woolen and also the linen goods were us just when canning operations com- canes were then taken one at a time

(Continued on Page Thirteen.)

### Horticulture

GROWING FIRST-CLASS FRUIT.

Editor RURAL WORLD: First-class fruit brings the highest and most remunerative price. It costs more to grow and put on the market in an attractive manner than the ordinary run of fruit, but it pays big.

There are a number of aids to success in growing first-class fruit.

First: Soil, suited to the kind of fruit to be grown. It should be well drained and moderately rich.

Second: Location; high and moderately sloping ground, and if possible an eastern exposure is best. Strawberries on a south slope will ripen about a week earlier than those on a north slope. During a severe drouth fruits suffer more on a south slope, but in a wet season suffer on a north

Third: Cultivation; this should be thorough, frequent and shallow. In dry seasons moisture is thereby conserved, whilst in wet seasons the surplus moisture is in part eliminated. Wet years are detrimental to fruit

Fourth: Pruning; trees should be taken in hand at the start and shaped; then, with but little assistance each year, they can easily be kept in form. Open tops, and head back when necessary. Kieffer pear trees will bear earlier if headed back the second and third year after planting.

Fifth: Spraying; this has become a necessity and not only assures a crop of clean fruit, but makes for healthy, fruitful trees.

Sixth: Thinning; this pays big, especially in years of abundance and low prices, because extra quality secures extra prices. Thinning also induces yearly crops and lengthens the lives of

Seventh: Gathering; this should be done carefully and at different periods. picking only the large, well colored

Eighth: Grading; this is an import-ant factor in securing high prices. Only one size and quality should go into a package.

Ninth: Packing; use the best material for packages and attractive labels. For high grade apples use boxes, and for lesser grades barrels. Give all fruit a chance to cool before packing.

Tenth: Storing; use only sound fruit, carefully handled and cooled. Herewith a few examples in point: My first experience in shipping fruit occurred in the fall of 1869. Having a fine lot of yellow Bellflower, I selected forty out of sixty barrels; put two layers of facers in the bottom of each barrel, then filled up with others equal to the facers. I shipped to St. Louis and wrote my commission merchant just how they were graded and packed; that he could empty any one barrel in the lot and I would guarantee all the others to be of the same grade. The highest market quotation at the time was \$2.75 per bbl. I expected \$3.00 per bbl., but was surprised to learn they sold for \$4.00 per bbl. was a lesson I never forgot. In 1872 a commission firm in St. Louis paid me \$9.00 per 24 qt. crate of strawberries f. o. b. at my former shipping point (Herman, Mo.) when the market quotations were \$6.00 and \$6.50 per crate. These berries were carefully gathered and graded. About the same year I sent to St. Louis fifteen bushels of early pears, in one-third bu. boxes, which brought \$2.50 per box. They were gathered a few bushels at a time, several days apart, as they attained their full size and color. (a beautiful with a red cheek) all being placed in layers, sloping, with the stem down until the boxes were filled, and instructions sent to open the boxes from the bottom. About twenty-two years ago I sent a few crates of extra fine strawberries to Kansas City which brought \$4.50 per crate although the

best were quoted at \$2.50 percrate. Of these berries 20-22 filled a qt. box. When I started in the berry business here 27 years ago, my pickers did not grade berries to suit me, so I hired several women to grade on a table, in a shed, each to report every picker whose boxes contained faulty berries, the pickers being assigned numbered crates in which to place their boxes. In a few days I had the pleasure of being told by a customer that she failed to find a single faulty berry in 24 qts., although in previous years she threw away from one-half to one and a half quarts of faulty berries out of every crate. Later I took in a partner and extended the plantings. Just before the shipping season began I went among the commission houses in Kansas City, finally selecting one whose methods seemed the best. After inquiry as to his reliability he was told we would ship to him exclusively, as we did not believe in scattering shipments. We telegraphed daily in advance the number of crates and grades we were sending.

After a few shipments our berries were sold in advance of arrival. customers would ask first for "those Lexington berries."

About 7 or 8 years ago spring set in warm and dry. Fearing a drouth I got a lot of straw and after first giving all my berry patches a thorough hoeing and cultivating, they were liberally mulched with straw. The drouth lasted until mid-summer, but my berries turned out well and brought 75c per crate over other years' prices.

Other growers' berries were small and dry, or dried up on the vines. Years ago I ripened Kieffer fit to eat out of hand. They were put into 8 lb. grape baskets and covered with blue mosquito bar. They sold in Sedalia for \$1.00 per basket (about \$6.00 per Twelve years ago I thinned my peach crop, except two trees. The former sold for \$1.00 and \$1.25 per bu., the latter for 40c. I mention these instances in no egotistical spirit, but simply record them as facts culled from past experience, and as a guide and incentive for others, especially be-CHAS. TEUBNER, ginners.

Lexington, Mo.

#### THE SEED CORN TRADE.

By C. D. Lyon.

We have been shelling, sacking, crating and getting out seed corn to fill orders amounting to twenty-five bushels. Twelve bushels of this goes to Illinois, four to Missouri, four to Indiana, two to Kentucky and the rest single bushel orders.

"Old Bill Farmer" wrote of the seed corn man who selected his stock between the car and the elevator, something far too common in hese days of commercial enterprise, and it is such "selection" of seed that makes possible to buy "seed corn" at \$1.25 to \$1.30 per bushel.

Last fall I wrote of our selecting between 75 and 100 bushels from the standing stalks, about half before cutting time, and the rest while we were cutting up and shocking our corn, and that seed was all put upon racks and handled perhaps five or six times, ear by ear, carefully looked over every time.

As we take it from the seed cribs for shelling or crating, every ear is critically inspected, and the other day I threw out about fifteen ears from eight or ten bushels, as not being fit to shell or crate for seed, this after every ear had been carefully looked over five or six times before.

seed corn dealer who sells thousands even in the south soy beans are not of bushels per year does this, and at \$1.25 to \$1.50 per bushel at that, he may just as well make up his mind that he is mistaken, for I am telling you that even at our prices we are not fully paid for the pains we take.

Here are some extracts from cus- forage also is much less than can be ton State Experiment Station.

ars Ahead of Any Other Nursery in America Stark Bro's NURSERIES & ORCHARDS CO., R. R. No. 4. LOUISIANA, MO

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708-10 NORTH FOURTH ST., ST. LOUIS, MO. Clover, Cow Peas, Grass Seeds, Garden, Field and Flower Seeds. SEND FOR OUR ANNUAL CATALOG.

tomers' letters. No. 1 from a man who bought last year and this:

1. "Better corn than I have been paying \$5 per bushel for. It don't pay me to save seed at your prices."

2. "Corn at hand, and the finest ears I ever saw."

3. "My seed was on the way two weeks, but it is much better than I expected to get at the price.'

"You sent me a fine bag of seed corn and I am ordering this two bushels for a neighbor."

"Your seed corn is sure fine. Enclosed order for two bushels more. Send me shelled seed this time."

It is certainly gratifying to get such letters, but we have been taking extra pains to send out as good corn as can be grown, and we feel sure that our customers will be pleased in the harvest.

We have about 100 bushels, probably a little less, selected from the shock while husking in November and early December, and when the field selected seed is gone we will have to draw on this, but I do not see but that it is as good for general planting as the other, for it is testing nearly perfect. Harry has one test box of 144 ears in now, and at the end of four days it is showing up extra well, this being from the shock selected seed.

Orders are coming in nearly every day, and we would not be surprised if we were sold out by April 5, so prospective customers had better not delay ordering too long.

#### EXPERIMENTS WITH SOY BEANS.

Tests of soy beans were made at Pullman during the three years 1910-1912 inclusive. A total of eleven varieties have been tried. The soy bean is a leguminous plant of a bushy character. It grows from two to four feet high. The seeds are generally sown in drills about three feet apart, using an ordinary grain drill with the extra openings stopped.

This plant is well adapted to many sections of the southern United States. In some instances it is grown in the north. It is a tender plant in its ear-Now if anybody thinks that the lier stages of growth. Consequently planted until May or June. They are grown for both seed and forage.

Most of the varieties tested on the Experiment Station farm have failed to mature. Only two or three have produced ripened seeds. The amount of

### SEED CORN

JOHNSON COUNTY WHITE.

We grow it, and only offer what is grown on our own farm, from the very best seed. No one has better seed, and no one can afford to sell good seed cheaper. Prices: Crated ears, \$3.00 per bushel, select shelled, \$2.50 per bushel A few bushels of Boone County White, same prices. Better order early.

C. D. Lyon. RI, Georgetown, Ohio.

Boone Co. White, Johnson Co. White, R. Y. Dent and Learning crated, \$2.50. Shell-ed, \$2.00. Stored and dried in a modern sea-house and thoroughly tested. Shipped a approval. Regenerated Swedish Select Oa Cat. free. OAKLAWN SEED FARM, Chatham, Ills.

### Seed Corn Reid's Yellow Dent Boone County White Reid's Yellow Dent

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# PEACH TREES

#### **GOOD POULTRY**

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secured from field peas. Thus far no nitrogen-producing nodules have been found on the roots of the plants. Our experience with soy beans does not indicate that this crop is likely to prove of any value in Eastern Washington. Extract from Bulletin No. 50, Washing

# The Poultry Yard

CARE OF HENS.

Editor RURAL WORLD: As regardso much about, will say that I have so much about. Will say that I have been in the poultry business for a long time and have good warm houses and have tried confining the hens in the bad weather and letting them out when the weather was fine, and I find that after they have been shut up for a while they don't want to return to the houses, will take to trees, fences or anywhere rather than to be shut in the house; then a cold snap comes and catches them on the outside, the result of which is cold followed up by roupe or other deadly diseases so commonly known among the featherly tribe. I've found that the better plan is to keep your doors open, allowing the fowls to go in and out at will. They are much hardier, don't take cold so easy and give far better results when spring comes. It is true, I admit, that by keeping them in with propper feeding and plenty of doctoring you can force a small egg production through the winter months but the extra price on the eggs will not pay for the extra cost of feeding and time, besides you will no doubt have an unhealthy flock to begin with in the spring, the eggs from which are not fit to set, besides it will take your flock most of the spring to recover from colds and roupe. Always allow your poultry to have A. R. WARD.

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#### OUR AMERICAN BREEDS.

Editor RURAL WORLD: No breed the received the popularity of the American Barred Plymouth ever Plymouth Rocks or the White Wyandottes, and they fully represent our ideas of what a market poultry fowl should bemedium weight, plump body, quick growth, yellow skin, yellow legs, and layers of good sized brown eggs.

No foreign breed has ever been able to cope with these two American standbys, unless the new Orpington will prove itself worthy of that class.

France boasts of her Houdan, and well she may, for it is a noble breed, of medium weight, plump, quick growth—but it has a white skin, dark shaded or white legs, and lays a white egg. There never was produced a better table fowl than the Black Langshan, and it lays a beautifully colored egg, but the skin of the fowl is so white. So we could name other breeds, like, for instance, the Dorkings, Indian Games, etc., but in all of them there is something lacking that we Americans want.

Even in the American class there are varieties which will never become popular, and some of which have already practically passed out of exist-The Sherwoods in appearance ence. were White Plymouth Rocks, and the White Wonders look so exactly like White Wyandottes, the only difference in these two breeds is that they have feathered legs, while the varie-ties they pattern after in appearance, have clean legs. It was this leg feathering that crippled them.

Of late years the Rhode Island Reds have become quite popular, and they are excellent utility breeds, but they will never crowd out the Plymouth Rocks nor the Wyandottes.

The Columbian Wyandotte is a new are excellent layers.

We call the Brahmas and the Leghorns American, but strictly speaking, they belong to England and Italy, respectively. Yet if one makes a comthe Brahma of America.

It must be said to the credit of the American tancier that all the varieties he handles he improves in their straw was available some of that from utility qualities. There was a time the bundles which had been picked when he considered the show room of apart by the fowls was taken from the more importance than the production of meat and eggs, but today it is different. The day is not far distant when hens will be sold on their egg record instead of their outward adornment.

The non-setting varieties lay white colored eggs. The best winter layers produce a prown egg. Too much middlings in the feed will cause small sized eggs. The egg gradually decreases in size and weight as the laying season prolongs. The size of the egg, as a rule, increases with the age of the hen.

MICHAEL K. BOYER.

#### KEEP A FEW.

Poultry raising as a side line on the farm should not be overlooked as a means of keeping the family purse from becoming too fat. The farmer should not consider himself too busy to help his wife look after the poultry interests. Of course the farmer of only ordinary facilities cannot go into the business on an extensive scale, and especially not when hired help comes so high as it does these days. Farm work requires practically the time from sun to sun during the busy season. But from twenty-five to thirty hens may be kept the year round without greatly interfering with the routine of farm work. The more prolific of these wil leasily raise three broods during the season. Most of the chicks may be sold when they have reached the frying size at good prices, the receipts from which should more than pay the grocery bill. From the increase, toward fall, both pullets and cockerels should be selected for keeping, while the older ones may be fattened for table use.

If carefully housed and kept, the hens during the late fall and winter will more than pay for their keep. Their feed need not necessarily be an item of any great expense, as the leavings of the table may be utilized in this way, supplemented by scraps of meat finely chopped, etc. Bran stirred into dishwater and given them in a flat vessel while warm will be relished. Warm feed during cold weather will increase the number of eggs.-Frank M. Beverly.

#### HOW TO BUILD POULTRY HOUSES.

Among the recent publications of the Missouri Agricultural Experiment S ation, is a thirty-three page bulletin on "Farm Poultry House Construction." The bulletin illustrates several different types of poultry houses with detailed drawings of each. The publication also contains a thorough description of interior arrangements for poulry houses, which insure convenience and cleanliness. The bulletin is free to all Missouri Farmers, who will write to the Agricultural Experiment Station, Columbia, Mo. Ask for Bulletin

#### IT MADE EGG-EATERS.

An example of how a simple and apparently harmless change in handling layers may develop annoying and even serious trouble may be arrival, and looks very much like a found in the following experience. Simon pure cross between White Early in October of the present year a flock of Single Comb White Leghorn pullets was taken off range and put in the laying house. It so chanced that no straw was available for litter for this house with the exception of unthreshed, bundled wheat. Thereparison of both these breeds as bred fore bundles of this grain were thrown in this country with those of their into the house and the pullets seon native country they will be altogether scratched them to pieces in working different in type. The Brahma of for the wheat in the heads. So far England, for instance, is more of the the scheme worked very well and lit-

Cochin style, and is not so prolific as ter was provided for the house, but trouble soon followed.

About the middle of the month the pullets began laying. As no other apart by the fowls was taken from the floor and placed in the nest boxes. The pullets, however, had become accustomed to looking for grain in this straw and after going on the nest and laying they would pick and scratch around until the egg just laid was thrown out of the nest and often broken. These broken eggs lying around caused, as so often happens, some of the pullets to begin egg-eating. Luckily the trouble and its cause were soon discovered with the result that excelsior was placed in the nests in place of the straw. Very soon the pullets learned that no grain was longer to be found in the nests so that they gradually ceased to scratch there and the eggs reposed in safety until gathered.—Rob R. Slocum.

# The Apiary

SHOP AND HONEY HOUSE.

A building containing storage space for apparatus, a well-lighted and ventilated workshop as well as a honey room, is necessary in comb-honey production. The arrangement and location of the shop and honey house will depend upon local conditions and circumstances. The usual mistake is in constructing these too small.

In the north the shop and honey houses are usually built over the wintering repository or cellar. Since rats or mice would do great damage to the contents of such a storehouse, the construction should be such as to exclude them. If a concrete foundation is used and the sills are embedded in a layer of green mortar, no trouble of this kind should be experienced.

If a series of out-apiaries are operated for comb honey, the supers and extra hives are usually kept in one building located near the home of the beekeeper. This serves as a central station and storehouse, the supplies being hauled to and from the apiaries as needed. This building may be supplemented by a very small building at each apiary, though in comb honey production this is not really necessary.

The honey room should be so located that it will receive the heat from the sun, preferably an upstairs room immediately under the roof. When so located a small hand elevator should be installed for taking the honey up and down.

The room should be papered or ceiled inside to keep out insects and to permit fumigation if necessary, and should contain facilities for artificially heating in case continued damp or freezing weather should occur before the honey is marketed. The honey room should be provided with ample floor support for the great weight that may be placed upon it.

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EGGS FOR HATCHING—15 for \$1.50, 30 for \$2.75, 100 for \$6.00. From Ex-hibition Barred Plymouth Rock and Single Comb Brown Leghorns, at Glen Raven Poultry Farm. Circular free. Ad-dress E. W. GEER, Lock Box 104, Farmington M. GEER, Lock Box 104, Farmington, Mo.

We duplicate all infertile eggs. White and Columbian Wyandottes, Single Comb White Leghorns, and Light Brahmas. We use trap nests. In business for 30 years. Brahma eggs, \$5 for 15; \$5 for \$7. The other varieties, \$2 for 15, \$5 for \$9, \$10 for 100. Address, Michael K. Boyer, Bez Z, Hammonton, New Jersey.

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### Horseman

L. E. CLEMENT'S WEEKLY LETTER.

Editor RURAL WORLD: The racing in the West in 1913 will be under American rules, unless otherwise specified. The American Association did a decent thing in returning a vote of thanks to Mr. Billings for his fidelity to the American trotter in taking The Harvester and other trotting horses to Russia in order that the people of the Czar might see what America is doing, although in that country they have been trying to breed trotters as long or longer than we have. It has probably made it possible to sell more good horses, both in Russia and Austria, markets that have been of untold value in the past.

Tom Ervin is handling five head of horses at the Driving Park Place track, at Springfield, Mo., besides his One is a son of Pat Clare that own. is likely to give a good account of himself; a grandson of McKinney that was double-gaited is now pacing; a son of Kyrillic, 2:141/4, dam by Douglas T., is learning the ways of the world in harness. It looks now as if there would be more interest in harness horses than there has been for several years.

February 26th Tangner and Brosius, owners of R, Ambush 2:091/4, sold the promising pacing mare Birthday, by Wesley Baron, 2:171/4, a sister to Vindicator, 2:291/4, a trotting race record made at three years of age. Mr. Tangner bought this mare in December, at a forced sale, for \$250. She goes to Newport, Ark.

John C. Dysart of Springfield, Mo., sold to Kentucky parties a brother to John Dysart, 2:1914, for \$250. This is a promising gelding by Pat Clare, sire of five trotters and one pacer, all sired in Greene County, Mo., and not one of them out of a standard mare.

Ivan Link has just registered a standard son of Pat Clare that he will use in the stud. Mr. Link is more than enthused on this fellow.

The party from Kentucky offered John C. Dysart \$500 for Woodline Clare, by Pat Clare, dam Edna Woodline, dam of Peckline, 2:16½, a sire. Edna Woodline is a sister to Ella Woodline, 2:231/2, dam of two pacers and one sire.

from Mexico, Mo., Bass. Tom dropped into Springfield on Thursday, February 27th, and picked up three good saddle horses and took another to train.

are promised for 1913 will attract the one a pacer, the other a trotter, I men of the stallion is drawn into a attention that she deserves to the Queen City of the Ozarks as a breeding point second to none in the west.

N. B. Mitchell, of the North Side, will try to secure from one to four of the best brood mares for his twoyear-old Sorento Todd colt Cecil put up Rush Medium, sister to Cham-House 55595, dam Della Dalton, p. pion Medium 2:22¼. She was going 2:191/4, dam of Dolly La Porte, a sis-

The Backbone of the Farm

The horse is the backbone and sinew of every farm-the call for horseflesh and muscle is continuous.

This everyday utilization of tissue and muscle must be constantly repaired and can only be repaired by digested food. But as the horse has the smallest stomach of any barnyard animal of its size and its feed much more highly concentrated, it is necessary to invigorate and tone up the horse's digestive organs to make sure of his getting the good out of his dinner.

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### INSTANT LOUSE KILLER KILLS LICE

months of age, trotted an eighth in 21 seconds, and one-sixteenth in 91/2, a 2:32 gait. It is not strange that Mr. Southwick, her breeder, stands "ferninst" Gen. Tracy and Wm. Russell Allen, and considers this pacing daughter of Boreal as one of, if not his best brood mare. Her dam Maud Sherman has four trotters, two of them by Boreal, one by Bermuda and the fourth, a two-year-old reported by Mr. Southwick, but as her record was made in 1912 and the year book is not out yet, we are unable to place her.

At the present time Todd is the leading son of Bingen, the greatest speed progenitor, in the Electioneer branch, to date. At six years of age Sorrento Todd took a record of 2:11 and started his 2:30 list with the two-year-old Sadie Todd, 2:30; that he was the third son of Todd to sire standard speed; that he is, out in Nebraska, and became a sire younger than either Cochato or Kentucky Todd. Knowing that, Mr. Southwick is on the ground, and now considers the pacing daughter of Boreal as his greatest brood mare, making Cecil House and his sister line bred to Electioneer. It is not strange that Mr. Mitchell is more than half inclined to think the gods have favored him with one of the best young sires ever bred. If Sorrento Todd proves the best son of Todd, as he should be from his breeding, because no son of Todd ever had as great a mother. It might be a good time to do a little bragging on myself as a seer. About twenty-five years ago I was with Dr. Pitzer, of devices. The only successful method St. Louis, owner of Areases, that he kept at White Hall, Ill. It was along about midnight, and all but the most pronounced horse cranks had retired. One good, successful fair which we I made the remark that of two sisters, would take the pacer to produce trotting speed. This had been my conviction from observation, for years. At the time of the next year's Kentucky sales I got a letter from the doctor, saying he was at the sales. They low, as she was a natural pacer, and ter to Cecil House, foaled March 20, I bid and got her. Her first colt, Capt. bred at the average service of a ma-

1912, and December 20th, at eight Walbridge, took a two-year-old record of 2:27, a three-year-old record of 2:181/4, and is one of the leading sires in one of the European countries. Her second colt by Woodnut, Ruth Woodnut 2:29%, is the dam of Capt. Higginson 2:291/4. She was then sold and went to Pennsylvania, where she was bred to the blind horse Epaulet and produced Yoette Epaulet 2:30, Fayne Epaulet 2:261/2, and Hilda Epaulet All of her five performers by three different sires of three different branches of the Hambletonian family have been trotters. What other demonstration would you want?

### SCIENTIFIC HORSE BREEDING.

By Frank B. Graham, Kansas City, Mo.

(Concluded.)

During the last few years a new method in horse breeding has been established. One mare may be served and a dozen mares bred from that one service by extracting the semen from the first mare served. During the period of all early text books it was taught that the discharge of a stallion or jack was made in the vagina. This was proven to be untrue. More than one-half of such services are injected into the uterus when a normal mare is served by a good serving stallion or jack. This has been the difficulty in artificial breeding; the operator could not get the semen. Many experiments have been tried in the way of breeder's bags, mare bags, cervical plugs and other employed in this direction is an extractor having a soft, metallic point that may be inserted into the uterus and bent down to the lower part of that organ. By this means the sesyringe where it may be immersed in warm water at 100 degrees and there kept a considerable length of time. A speciaul capsule with a pointed end, made of the best material, is filled half full and inserted into the uterus of the next mare to be bred, and so on until all the mares present are served. Twenty mares can easily be

Registered Saddle Stallions, and Mares, Jacks and Jennets at Auction Friday, March 7

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Hamilton Brothers, of Mexico, Mo., will sell 30 registered saddle stallions and mares, 20 jacks and 10 jennets at their annual sale Friday, March 7. The offerings in this sale will include the best blood of Missouri and Kentucky, and all of them are fresh, young stuff, including a number of show prospects. If interested, write for catalog and arrange to attend.

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WILKNUT 42923, bay stallion trotter, star, left hind foot white, 16.1 hands; weight 1250 lbs. Foaled 1903, by Red Roy 2:15½, son of Red Heart 2:19. 1st dam, Monnutta, 2:31, by Wilkeswood, 2:23½; 2nd dam, Miss Wickliffe, by Wickliffe 2520; 3rd dam Monitor Rose by Monitor 1327.

Wilknut is one of the best put-up stallions I have ever seen, for style and action he can't be beat. He was never worked for speed, but can trot fast. He can show a 2:20 gait any time. He is a sure foal getter and a grand breeder. Price \$250.00.

Price \$250.00.

MONDUKE 51549, black or dark chestnut stallion trotter, star, right hind foot white: 15.3 ½ hands, 1100 lbs. Foaled 1909 by Baron Reaper 2:09 ¾, dam Alpha C. Wilkes (mat. rec., 2:24), by Wilkesmont 2:28, 2nd dam Pinafore by Abdallah Jr. 5729.

Monduke is a handsome stallion, good gaited, good headed. He has not been trained, but can show better than 2:30 gait. I think he will be very fast if given a chance, and should make a great sire. Price \$250.00.

MONITOR RUSSELL 33727, trotter, bay stallion, 15.3 hands; weight 1200 lbs. Foaled 1895 by Alley Russell 4602. Rec. 2:22, dam Monsulta, vol 13, by Sultan 1513. 8nd dam Monitor Rose, by Monitor 1327, 3rd dam Bay Dixle (dam of 3 in the list) by Abdallah Jr. 5720.

Monitor Russell is a big, strong, good looking trotter; he is a good road horse, afraid of nothing, looks like a ten-year-old. He is sound and a good stallion for any purpose. Price \$125.00.

stallion for any purpose. Price \$125.00.

RESERVE FUND 5302, 2:26½, chestnut stallion, foaled 1885, by Nutwood
600, 2:18¾. Dam Lizzle Wilkes (in the
great brood mare list), by Geo. Wilkes,
2:22; 2nd dam by Mambrino Patchen
58: 3rd dam by Edwin Forest 49.
Reserve Fund is the sire of 13 in the
2:30 list. He is a horse of the most
perfect form, of the highest style and
action. He looks and acts like a tenyear-old. He is one of the surest foal
getters on the farm and should not be
for sale, but we want Baron Reaper,
2:09¼, to take his place. Price, \$100.00.

WILKTELL 55018, dark chestnut

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2:09%, to take his place. Price, \$100.00. WILKTELL 55018, dark chestnut trotter, 15.3 hands, 1000 lbs. Foaled 1910. By Wilknut 42923, son of Red Roy 2:15, dam Electwanda by Electeer, son of Expedition 2:15; 2nd dam by Reville 1472; 3rd dam by Strathmore 408. Wilktell is a nice looking colt, will be 16 hands, broke to harness. Price, \$125.00.

MONTEITH 54685, bay, two hind feet white, trotter, 15½ hands; weight 1000 lbs. Foaled 1910 by Mondorf 22009, dam Monella by Saywa 12726, son of Chward 1400; 2nd dam Lady Elliston by Elliston 5387, son of Electioneer 125.

Monteith is a large, finely formed, good gaited, speedy colt. He showed quarters in 40 seconds as a two-year-old; he will make a fast trotter and a good stallion. Price, \$200.00.

NORWELL 56440, trotter, bay, right

good stallion. Price, \$200.00.

NORWELL 56440, trotter, bay, right hind foot white, foaled 1911. By Reserve Fund 5302 (sire of 13 in the 2:30 list); dam by Electeer 31500, son of Expedition, 2:15%; 2nd dam by Reville 1472, 3rd dam by Strathmore 408.

Norwell is a shapely, good-built colt, sound and all right. Broke to harness. Price, \$125.00.

Price, \$125.00.

MONKELL, bay gelding, foaled Sept. 16, 1908, 15.1½ hands; weight 1050 lbs. By Mondorf 22009, dam Monella by Saywa, son of Onward 2:25; 2nd dam Lady Elliston by Elliston, son of Electioneer.

Monkell is a very nice gelding, has been used on the road some; had no track work, but we timed him quarters in 41 at the trot and quarters in 38 at the pace. He would make a very fast horse if trained at the trot or pace. He is good gaited and good headed. Price, \$200.00.

MONJAY, bay gelding, small star and snip; two hind feed white; 15.1 hands; weight 950 lbs. Foaled 1910, by Wilkes Mondorf 22009. Dam Monjane by Wilkeston 22022, rec. 2:25; 2nd dam Jane Wilkes by Monitor Wilkes 6692.

Monjay is a good-looking trotter, he has lots of style, speed and action. He is one of the most promising colts on the farm. Price, \$200.00.

is one of the most promising colts on the farm. Price, \$200.00.

RESERVE VICTOR, chestnut gelding, 15 hands, 900 lbs. Foaled 1910; sire Reserve Fund, 2:26½ (sire of 13 in 2:30 list), by Nutwood 600. rec. 2:18; dam Monafare Belle by Wilkeston 2:24; 2nd dam Monafare by Monitor 1327.

Reserve Victor is a good-looking trotter, sound, clean and good gaited. Price, \$150.00.

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These horses can be seen any day at the Colman Stock Farm. The Missouri Pacific R. R. trains leave Union Station for Colman Station on the farm at 6 a. m. and 5:55 p. m. The Rock Island train leaves Union Station for Creve Coeur, one-half mile from the farm, at 7:31 a. m. Creve Coeur electric cars leave on Olive street every twenty minutes. Get off at the lake and walk two miles up the lake.

ture draft stallion, as eight ounces is the average discharge for an animal of this kind. The per cent of breeders that are making a success of the capsule system is greater than the per cent of those who breed by the natural service. There are failures in both classes. There is this advantage in the capsule system, that when properly employed it is a complete service. The semen is deposited directly into the uterus where it must be deposited before fertilization can take place. A large per cent of the services made are not complete with the natural service: a great many mares have had difficulty at a previous foaling resulting in the cervix being closed or not in a proper position so that the spermatozoa could not find its way into the uterus. Such mares would not fertilize with the natural service under any condition.

It has been estimated that 20 per cent of the shy breeding mares can be fertilized with the capsule system when all other methods fail. With the capsule system only one service a day is necessary. This should be at a particular advertised hour so that all customers could be there at one time and save much annoyance in the way of making dates and crowding the stallion. With one service a day the spermatozoa is stronger, a greater per cent of mares will fertilize and the colts have more vitality. It is not uncommon for a stallion or jack to sire as many as 200 colts in a few weeks of one spring's service. When a dozen or more mares are bred each day the opportunities are greater. From the average discharge of a mature stallion there are millions of spermatozoa, only one of which is necessary to cause fertilization; the balance are wasted. There is no danger of getting the ovum or female egg, when extracting the semen, as it is not liberated for from two to five days after the heat period has closed. Fertilization in the mare takes place in the uterine duct, near the horn of the uterus. It is frequently claimed that foals gotten by the capsule system are not as strong, or may be deformed in some particular. This is only used as an argument by those who are not able to employ such system or that of a competitor who wishes to injure the up-to-date breeder. There is absolutely no difference in any respect in the colts except that the tax on the stallion being less, the average vitality of the colts is higher.

A great many of our valuable sires are being injured each year by an excess of service. Not more than two services one day and one the next (no two services closer than ten hours) should be employed for any length of time by any stallion or jack owner. here are those who contend that stallions or jacks are capable of making a great many services in one day, and prove it by records obtained in Europe. I have tested numerous stallions in Europe with a microscope and find that they cannot successfully make a great number of services daily for a great length of time. The reason that mares fertilize under a condition of this kind is that in Europe regular routes are made, as a rule, so that in case a mare does not settle at one heat period she may be bred again. Every stallion owner should have a microscope so that he can test the semen of every service and know just what his ing. Mare owners should demand this service so that they would have a means of knowing whether the stallion was fertile. The semen under a 500 diameter microscope will show thousands of spermatozoa that look very much like wiggle tails in great motion, if a stallion tests satisfactorily. Then the mare owner may

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ing condition if she does not stand to the service. When natural service is employed, quite frequently a stallion or jack may be out of condition for days at a time. Some stallions can stand a little more service than others. Occasionally a stallion or jack cannot discharge live spermatozoa more than one a day when used regularly for two weeks.

The best method of "trying" mares is to tie them to a hitch rack, removing all harness and bridle, leaving them perfectly quiet for a few minutes. Then the stallion may be brought out and led around the mare quietly so that she may become accustomed to the situation. The operator should stand a reasonable distance behind the mare so as to watch the flow of urine. If the urine falls straight down, the chances are that she is in heat, as the clitoris expands giving a wider space during the heat period. If it should fall far back there is little use to try the mare A great many mares are further. bred while pregnant; about ten per cent of all pregnant mares will accept the embrace of the stallion at some time during pregnancy. Mares should not be teased extensively on the 21st day, which is the regular return day after a mare has been bred, as an abortion is easily induced at that time. A great many mares are made shy breeders through the opening up process at about that period. After a mare has aborted it is usually difficult to make her fertilize later on.

About 85 per cent of the colts that die before weaning time are foaled before May 1st. June is the best month in which to breed mares. Colts come after the mares have usually had a little grass, which has eliminated a lot of poison from the system and the sun has had an opportunity to destroy much infection in the pastures, that might cause "navel ill." The mare being in good condition the colt grows rapidly, without being stunted, and usually makes just as good a horse as one of its early neighbors. Colts should never be stunted at any time if they are to make the best growth. Colts produced for show or other purposes may be produced earlier when special care is given. In June mares have passed through the shedding process; they have become accustomed to their general work and are in their regular working form. The mucous membranes are clear and very little catarrhal condition is present. There is no other month in the year when mares fertilize more readily than in the month of June in this With the latest modern methods all the mares in one community can be bred to one stallion during a very short season. One good outstanding individual is worth more herd of misfits, but in order to accomplish this it is necessary for the owners of mares to demand that the individual who handles breeding stock to be better posted, as a rule. There is no other investment that equals that of a good sire in the hands of an individual who is profiknow that his mare is not in breed the better class of mare owners in men on the Pacific Coast.

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his particular section.

Stallions and jacks are different from any other class of live stock. It is not usually necessary that mare owners buy either of these as there are not many men who own enough mares of their own to make it necessary. In order that some individual purchase a good, outstanding individual it is first necessary to make it profitable. He cannot afford to make the natural service on a lot of diseased mares, but it is necessary that he collect a reasonable service fee from each mare producing a colt. About 25 per cent of the colts in the United States are never paid for; the owners of the other three-fourths of these mares pay all the expenses of maintaining the stallions and jacks. If a law was enacted in every state giving the owner of a stallion or jack a lien on the mare and colt for 18 months after the mare had been served, the competition would reduce the service fee to the honest mare owners. It would make the horse breeding business a pleasure, and more profitable to the men who breed horses, as well as to the stallion owners. A great many mares are traded and sold before they are known to be in foal. I have colts in a dozen different states that never were paid for and never will be. Nearly every stallion owner is in the same position. Every honest mare owner that is interested in better horses should favor a law giving a lien on the mare and colt for it will make the service fee cheaper to him and not cause the stallion owner to spend so much time collecting difficult debts. Many breeders state that they would rather breed the mares than to collect the service fees. Mare owners should also be particular about the individual who does the breeding and demand a more cleanly, skilful job, for it means dol-

lars to them. Every stallion owner who expects to receive the future patronage of those with whom he is in yearly contact must give his patrons value received and do business on the square. There is no other individual in a community who is in a position to do more good than the stallion or jack owners and we should urge them to lead a good, clean life and set a good example for all those with whom they associate daily.

J. H. Ball of Los Angeles, Calif., is in Mexico, Mo., buying saddle and harness horses from dealers and breeders. cient and who has the cooperation of Mr. Ball is one of the leading horse-

### The Pig Pen

A CHEAP FARROWING HOUSE FOR sows.

Editor RURAL WORLD: raise pure-bred Berkshires only and try to have my litters come early in order to have spring pigs big enough to sell for breeding purposes in the fall, the farrowing house has been quite a problem with me. Last winter I made what I thought was good houses, with shingle roof and good flooring, but think they cost me \$100 each in pigs mashed. The sows would farrow a nice litter and in 48 hours would only have from one to four living pigs, the balance being mashed. I put in all the bedding that I thought safe, but most any time in the night I could hear the sows scraping the bedding up in a pile; they were uncomfortable and would scrape the floor, getting all the bedding in a pile and covering the pigs with it, then lay down, and the result would be more dead pigs to carry off. This winter I have made my houses out of baled straw, lay bales on edge, making the house two bales high and two bales in length and the same width; this takes 16 bales to make a house, or by making them with several in a row will not use so much; this plan will take about a half ton of straw to each house. If you have your own straw the expense of bailing will be about \$1 for each house. I leave a door at the southeast corner, and for roof use cane hay or straw; cane hay is better; this makes the most comfortable house I have seen. I believe a sow can farrow in this house in zero weather and have no pigs with frozen ears. Keep the sow comfortable after farrowing and she will be quiet. I had a sow farrow in one of these houses a few days ago that I am sure did not move out of her bed for 30 hours, and they do not require as much bedding, and the sow will not root a hole to lay in. In winter a sow will root in a dirt floor to throw up an embankment to keep off a cold draft, and in summer will root to get to moist dirt to lay in, but in either case she is trying to make her surroundings more comfortable, so don't stick her nose full of rings, but look at her house and bed, try and locate the draft; it is there; but if you want to be sure to avoid rooting drive a post at each corner of the house, nail a 2x4 on them close to the ground and stretch field fence on the ground, then build your house on it. While these houses may detract from the appearance of your farm, they will certainly add to your bank account.

BEN T. PRIGMORE.

Sweet Springs, Mo.

#### PROFIT IN FALL PIGS.

An Ohio farmer, who has had the experience which teaches him that there is money to be made with fall litters, gives results with two Duroc-Jersey sows and their fall litters. These sows farrowed August 30th and September 1st thirteen and eleven pigs and raised ten and nine, respec-

The feed they consumed, counting from the time the sows were bred until the offspring were sold, was as fol-Pasture, \$5.90; tankage, \$12.25; ground wheat, \$9.50; skimmilk, \$2; lin-

### Berkshire Sows.

are offering some of our best hard at half their cost. Bred to Ideal's rer. Also some tine glits. Fifty fine ablan Wyandotte hens at half price white and Brown Leghorn cockerels each. Also Wyandotte cockerels chear

Mule Foot Hogs, Shetland Ponies. Milch Goats, White Leghorn Chickens. John Duniap, Bex 474, Williamepert, O.

seed meal, \$2; soybeans, \$2; 193 bushels of corn, \$86.85, Total cost \$120.50. When they were sold they weighed 3,-725 pounds. He received \$6 per hundredweight for them, or \$223.50, making \$103 profit, or 98 cents per bushel for the corn.

## The Shepherd

MISTAKES IN SHEEP FEEDING.

Recently a serious mistake in feeding was called to our attention which cost the farmer who made it two fine ewes and a prospect for probably dead or debilitated lambs later on. ewes were being carried through the winter on home-grown feeds entirely, their ration being made of corn, oats, fodder, and timothy hay which had been run through a threshing machine in August and blown into the barn. The ewes were fed liberally on these feeds, and about ten days before lambing time, two of them died, the symptoms indicating clearly that their digestive systems had become clogged by the feeding of so much dry feed. It was found that the ewes were extremely fat, which condition is not to be wondered at, says Farmers' Guide.

This instance is only one of many that occur every winter in all parts of the country. People, especially beginners, are apt to forget that the sheep cannot be fed like a steer and that their digestive apparatus is so constituted that too much feeding or the wrong kind of feeding will prove fatal in very many instances. Timothy hay should never be offered to ewes because of its decided tendency to cause constipation. Many sheep are lost every year through the feeding of this roughage. To the pregnant ewe, timothy hay serves her needs about as well as so much shavings. Clover hay or alfalfa hay are great favorites with sheep, and they have the further important quality of being more or less laxative. Their relatively high protein content, too, comes in very good play in supplying the need of the ewe just at this time.

Oats alone, while they are an excellent feed, are dry and fibrous, and tend to cause constipation in the animal. This fact is readily noticed in horses that are not working steadily, and the tendency is much more pronounced in sheep. The addition of one part bran to one and a half of oats corrects this, however, and an excellent feed is made, to be fed at the rate of one-half pound per day. Corn has no particular place in the ration of the breeding ewe, as it is primarily a fattener. It could be fed occasionally for the sake of variety, but the oats and bran ration should be the regular one. Allow the sheep plenty of water during the winter. Water does much to keep the digestive tract in condition and in rendering food in a state to be handled.

Whether the farmer knows or cares anything about the finer points of feeding or not, these fundamental things he cannot ignore. Some men-the hopeless sort-will see their stock die, bury it, and never have the least conception of the cause, except perhaps 'bad luck," while all the time it may be due, and very often is, to his ignorance in feeding the animal. Such a man will never do or get along any better, for he will never know any better. But the wise farmer will investigate the cause of his bad luckfor there always is a cause—and when he finds out his mistake, he will not be found falling headlong over the stone again.

The officials of the State University of Idaho believe that there is great need for the extension of the wool



# **SettleImportantThingsFirst**

THE time to investigate harvesting and having machines-the time to know which binder or machines—the time to know which binder or mower is the best for you to buy, is before, not after, you have given your order. The success or failure of your whole season's work, from the plowing of the ground to the ripening of the grain, depends upon the quality and efficiency of the machines you take into the harvest field. Therefore, the selection of the harvesting machines that you will use is the most important decision you make. Settle that first—now—before the busy days of the season are on. Get catalogues from your local dealers, or send to us for them, and study carefully the harvesting and haying machines and tools made and sold under these names:

#### **Deering** Champion **McCormick** Milwaukee **Osborne** Plano

Bear in mind when you come to pay down your money that these machines have harvested the grain, and cut and cared for the hay from fields in every part of the world, and some of them have been in use in the United States for more than seventy years. The efficiency gained through this long period of field work under practically every conceivable condition adds nothing to the cost of the machine. In fact, it is because of this long experience that you can buy these time-tried and field-tested machines at the lowest market prices for reliable harvesting and haying machines and tools.

Another important point to bear in mind when considering the purchase of a harvesting or haying machine is the facility with which you can obtain repair parts if they should be needed. Delays at harvest time are too expensive to take any chance with them. You can secure practically any part of an I H C harvesting or haying machine within a few hours of the time that an accident occurs, and when you get the part to the binder it will fit in the place of the broken one.

To get the best work out of a binder it is imperative that the twine used be strong and smooth, strong enough not to break under the strain of tying the bundle and smooth enough to run freely from the can to the knotter. Twine that will do this is sold by I H C dealers under the trade names, Champion, Deering, McCormick, Milwaukee, Osborne, Plano, and International. There are four grades of each brand, namely, Manila, Pure Manila, Sisal, and Standard.

Your neighbors know I H C machines and binder twine. They will tell you what their experience with them has been. The I H C local dealer can furnish you with catalogues and full information, and will explain fully all the good points of the machines he handles.

You can get catalogues from the local dealer, or by addressing a letter to the

International Harvester Company of America 1 CF 1000 CF 1

more widespread use of sheep on the Downs were imported from England and for student practice in sheep the Lincoln. judging, splendid specimens of five different breeds have been collected group, Shropshires, Hampshires and Twin Falls, Idaho, others were imported from England. The Hamp- Idaho Experiment Station. shires came from the Butterfield flock. One Hampshire ewe made a remarkable record in 1911 by dropping will find many things advertised a pair of twin ram lambs that weigh- which are interesting even to read and mutton-producing industry by ed thirty pounds at birth. The Oxford about.

farm. To demonstrate what can be for the University by George Mcdone with small flocks, for student Kerrow & Sons, of Pewaukee, Wisconuse in the study of types and breeds sin. One long-wooled breed is kept, The foundation ewes came from the F. H. Neil & Son, Ontario, Canada. Part of the ewes of the for a university flock. The Rambouil- various breeds are crossed with rams let represents the fine wools and some of other breeds in the attempt to se very fine ewes to start the flock were cure the best possible mutton form in secured from the Butterfield Company wethers for show purposes. Other of Weiser, Idaho. Of the middle wool ewes are bred to rams of their own breed to secure breeding animals for Oxfords have been chosen for the increasing the flock. Surplus animals University. Some of the Shropshires are sold and receipts for sales used in were secured from I. B. Perrine, of purchase of other pure-bred animals. -E. J. Iddings, Animal Husbandman,

Read the small ad columns. You

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#### SUGGESTIONS FOR THE POTATO GROWER.

By Roy C. Bishop.

The potato as a foodstuff has become so popular both in America and Europe, that it may very properly be classed with "bread and butter" as a great constituent of human diet. It is one of our most valuable foods and a source of large income to the pro-About 400,000,000 bushels, valued at \$167,000,000, are produced annually in the United States.

The yield per acre and total production of potatoes in Missouri is far below what it should be. The average yield per acre in this state is 87 bushels. The average yield per acre for the United States is 106 bushels. While in Maine, which state produces the highest average yield in the United States, the average yield per acre is 210 bushels. Maine, therefore, produces almost 21/2 times more potatoes per acre than Missouri. The potato crop in Missouri is not sufficient for home consumption. Only about eight million bushels are produced in this state annually. Thousands of bushels are being shipped into the state each year and for this reason the producer should be encouraged to modify their methods so as to produce more potatoes per acre of a better quality.

The potato is adapted to a wide range of soils and climatic conditions. Rich, sandy loams well drained and supplied with humus or vegetable matter are the best soils for this crop. The potato is a native of Chile where it may yet be found growing wild on lands which are naturally well drained. That it still clings to this characteristic of its progenitors is dem-onstrated by the lack of success met with in attempting to produce potatoes on poorly drained soils. Natural drainage is the best but properly tiled soil is good.

While it is best to have rich, sandy, tillable loam for potatoes, relatively poor heavy soils may be put in condition so as to produce large yields. Heavy clays are to be discriminated against, however. Soils of low fertility and of a hard, heavy character should be treated with a liberal application of barnyard manure for one or more seasons before being planted to potatoes. Some deep rooted, leguminous plants like cowpeas, clover, vetch, or soy-beans should be sown and plowed under for green manure. This barn or green manue will put humus or vegetable matter into the soil and give it a loose, tillable property. It will also add quantities of nitrogen and the deep thrusting of the roots of the green manure plants will produce a subsoiling effect and aid in soil aeration. Thus two things are gained by the use of green manure, desirable tilth and looseness for potatoes and a supply of nitrogenous

Large quantities of available phosphoric acid and potash are required in potato production and even in the case of the best potato soils these elements must be added for best re-Nitrogen can and should be largely supplied by means of green and barnyard manure but the phosphoric acid and potash requirement cannot be kept up in this way. Green manure, however, while in the stage of fermentation and decay aids in making the non-available phosphates and Potash in the soil available to plants. Thus another advantage of this form of manure is seen. Experience has taught, however, that it will pay big to apply to the soil liberal amounts of potash and phosphoric acid for potatoes, even under these conditions. Sandy loam soils are particularly in need of potash. The Main producer, who grows 2 to 4 hundred bushels per acre often applies 10 to 12 hundred pounds of fertilizer per acre to his

AMERICAN ORIGINAL AND EENUINE Full Weight, Full Size of Wire, Full Length of Roll. Put the gauge to our wire—it is full Our rolls are full length. The weight of our fence is full and heavy. Test, compare and judge. Two Great Books Free

increased yield, his potatoes are firm and superior in quality.

If barnyard manure is applied to the potato soil in the spring it should be well rotted, otherwise scab may result. Better apply and plow under manure, if not well decomposed, in the fall or top dress in the spring after planting is finished. If commercial fertilizer is to be used, it should be drilled in with a wheat drill before planting time. Not less than 400 pounds should be used in this

way. If the seed potato displays any indication of scab they should be treated with formalin. One pint of 40 per cent formalin diluted with 30 gallons of water will be sufficient to treat 20 bushels of potatoes. Soak the seed two hours in this solution. Seed potatoes should be cut so as to give considerable size and two good eyes to each piece. A potato weighing onehalf pound should be cut into but four when it is recalled that the small potato plant must depend on this for its nourishment for the first two or three weeks of its growth. Experience throughout the largest potato growing sections show that the size of the seed piece has a marked influence on there is any evidence of rot. the yield as does also the distance

potato soil. In addition to getting n | 14 inches is the proper distance apart | souri's yield of potatoes and add 50 to drop the seed and that one piece per cent to the quality of the crop, only should be dropped to the hill.

> It pays to have the soil in fine condition for potatoes, just as for other Thorough preparation is worth several subsequent cultivations. It is often advisable to harrow the potatoes several times even before they are This should be repeated while the plants are yet too small to plow. In raising potatoes the old adage. "well begun is half done," is good to follow. Moisture can be conserved in this way and weeds eradicated so that subsequent control of moisture, weeds and physical condition is very much facilitated.

Spraying should not be neglected even where only small patches are grown. Dissolve 6 pounds of copper sulphate in a small amount of water and 6 pounds of quick lime in a separate vessel. Then make up each solution to 25 gallons by adding water and draw the two solutions into the pieces. The value of having large same tank. This will make a good the Publish seed pieces is more fully understood spray for rot and blight. Add one pound of paris green to this for the ised Land," by Annie Fellows Johnspotato beetle or bug. This amount of ton, was the second best selling book solution will be sufficient to spray one acre of potatoes. Spray as soon as the plants get 3 or 4 inches high and as often thereafter as bugs appear or

It is conservative to say, proper soil apart at which the seed are dropped. treatment drainage, treatment of seed It is universally conceded that 12 to and cultivation would double Mis- one at 1 cent a word.

Where potatoes are grown to supply the home alone it would be a great satisfaction to practice the best meth-

#### NEW BOOKS.

Miss Will Allen Dromgoole is another well-known author who hails from Nashville, Tennessee. She has written some especially interesting stories with the picturesque Cumberland Mountains for a background, and is now engaged in writing a new romance of the South, a sequel to her delightful latest book, "The Island of Beautiful Things."

Messrs. L. C. Page & Company, Boston, announce that they have just gone to press with a second edition, before publication, of Theodore Goodridge Roberts' new adventure romance "The Harbor Master," a tale of Newfoundland.

According to statistics compiled by tle Colonel" book, "Mary Ware's Promton, was the second best selling book in the country during the holiday season. This is an unusual record for a girls' book, since it is usually adult fiction only which takes rank among the

'six best sellers."

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The RURAL WORLD is published on the cash in advance system and the paper is stopped when the time paid for has expired. If subscribers receive a copy with this notice marked, it is to notify them their time has expired and that we would be very glad to have prompt renewal. While our terms are Cne Dollar per annum—a low price considering the high quality of paper we use—yet so anxious are we to extend the benefits that we believe the RURAL WORLD confers on all its readers that we will for a limited time take subscriptions, both new and renewals, for 50 CENTS A YEAR. "Once a subscriber to the RURAL WORLD, always a subscriber." Farmers can't get along without it. Please remit P. O. money orders, or checks on St. Louis banks, as our banks all charge five cents for cashing local bank checks, however small. We appreciate the kind efforts of our patrons in all parts of the Union in speaking good words in behalf of the RURAL WORLD, and it is to these efforts we attribute our constantly increasing circulation.

The co-operation of reputable and re-aponsible concerns, through our adver-tising columns—firms whose products and methods are creditable, and upon whose representations our readers may rely—is respectfully solicited, that our advertising pages may be really rep-resentative of American Manufacturers and their goods.

Contributed articles, communications, etc., on pertinent subjects, are invited. The Editor assumes no responsibility therefor, however, and their publication in nowise implies editorial endorsement, beyond the Editor's belief that frank and courteous discussion of all questions within the province of this journal is to the best interests of our readers.

Entered in the post office at St. Louis Mo., as second-class matter.

Ex-President Taft will now assume the professorship of law in Yale, while President-elect Wilson will assume the responsibilities of office in Washington.

It has been formally declared by the Secretary of State that the income tax amendment is now part of the constitution. It is now up to the man with a taxable income.

Kansas City is to be congratulated over the ease with which it has raised a \$100,000 grand opera guarantee fund. Kansas City generally does well whatever she sets out to do.

issued a pneumonia warning. The other fact that the average pupil quits next eight weeks, the warning says, will see possibly 1200 deaths from this disease, consequently precautions are necessary. Among these are: Keep up your physical tone that the body may resist disease; don't frequent crowded, overheated places, impure air being an important factor in

the spread of the disease; the tighter the housing, the lower the physical tone and the higher the pneumonia death rate the open window is the avenue of escape from pneumonia.

Congressional distribution of seeds was ended by the Senate by eliminating from the agriculture appropriation bill a provision appropriating \$256,100 for that purpose. Among the more important amendments adopted was one introduced by Senator Hoke Smith, creating a bureau of markets in the Department of Agriculture.

Passenger delay due to parcel post still continues. Reports from all over the country show that passenger trains are still being held up by the transference of mail, notwithstanding the greater efficiency of the Post Office land. Department, which is putting on new men to meet the situation. At Missouri Valley, Ia., as an illustration, one train had to wait while thirty truck loads of parcels matter was transferred. The trouble is that when the packages were carried as express matter the trains did not wait for them, but now that they are mail matter, they must be carried on the first

On July 1 next the collect-on-delivery feature will be added to the parcel post department of the postal service of the United States. An order putting this into effect was lately signed by Postmaster General Hitchcock. Under the approved regulations a parcel bearing the required amount of parcel post stamps may be sent anywhere in the country and the amount due from the purchaser collected and remitted by the Post Office Department. The amount due from the addressee and the collection will be made, provided the amount is not in excess of \$100. The fee will be 10 cents, to be affixed by the sender in parcel post stamps. This also will insure the parcel to an amount not to exceed \$50.

St. Louis County truck gardeners maintain the high cost of living would be materially reduced if the municipality would erect market places where they can sell their produce to the consumers. Under present conditions, they say, they have to do business in the street and on the sidewalk along Commission Row, and, although they pay for the privilege, they are handicapped by alleged arbitrary methods on the part of the commis sion merchants. A delegation of fruit and vegetable producers from St. Louis County appeared before a joint committee of the Council and House of Delegates Wednesday afternoon, to urge the erection of municipally regulated market places in the West End, where county farmers can rent stalls from the city and deal direct with the consumers.

It is not too much to say that in furnishings, equipment and architectural beauty the St. Louis schools have no superiors anywhere. A law just passed by the Missouri Legislature opens the public schools of St. Louis to children 5 years of age and and to adults of any age. This city thus takes another long step forward in adding to their opportunities. St. Louis was a pioneer in kindergarten work and in manual training, and the admission of children at 5 adds a year to the period of primary instruc-The Board of Health of Chicago has tion, an important fact to go with the school before reaching the age of 14. But adult pupils, except at night schools, are rare in any part of the world, so St. Louis again sets an educational example. Under the new law any district in the state may make a similar arrangement in its public schools.

#### ALFALFA AND SWEET CLOVER.

From the interest taken in these plants, I am not sure that it would not be a good plan for every farm paper in the U.S. to have a department especially devoted to them and their growing. It seems that the long existing prejudice against sweet clover, the fear of its becoming a noxious weed, as well as "that stock will not eat it," has been finally disposed of, and all who know the plant like

We are not at all sure that in many localities it will not prove a more desirable plant than alfalfa and in other places it is going to be known as the forerunner of the alfalfa crop, in that its growth for two or three seasons makes alfalfa soil out of any

It will be well to experiment some with it in the way of seeding lightly. say at the rate of four to six pounds per acre, and allow it to fully establish a stand by its own habit of seeding.

This will reduce the cost of getting established and with the first seed crop, home-grown seed can be saved and the further cost will be small.

Some eastern farmers are sowing a small amount of alfalfa seed with this clover, the object being to cheaply inoculate the whole farm with alfalfa bacteria, and the same plan will work well with sweet clover. There are tens of thousands of acres of rough land in Missouri and other states, land that grows but a sparse crop of grass, and on these lands sweet clover will make a heavy growth, in fact, giving as much pasturage as richer and higher-priced

Missouri's good points are to be preached from 2000 pulpits in the state if the suggestion of Rev. A. N. Lindsay of Clinton, Mo., before the convention of the Federation of Missouri Commercial Clubs on February 25th, is carried out. The address of William Hirth, president, told of the immense values of Missouri products. He estimated the value of Missouri products to be \$500,000,000. With intensified culture, he said, the products of the state would be over a billion dollars. William H. Bloomer of St. Louis struck the keynote of the meeting when he proposed the organization of a commercial club in each Missouri county. If the St. Louis suggestion prevails a bureau to aid the clubs and the farmers to a better understanding will be established. Mr. Bloomer said a lack of social advantage accounted for a drop in the census returns of some of the rural districts. He declared the organization of country clubs would remedy this by getting more and better schools and churches. Bloomer declared the rural schools should take up work similar to that of the manual training schools of St. Louis and other large cities.

Speaking of the growth of cooperation among farmers, Bradford Knapp, chief special agent of the Department of Agriculture, says there is a great deal of cooperation in selling, but scarcely any as yet in buying. "Coscarcely any as yet in buying. "Co-operation is a growing question. It is not Socialism, as the farmers look at it, but brings about a more direct and better relation between producers and consumers. There are many cooperative grain elevators and creameries in the Northwest. A cooperative cotton gin is being successfully operated in the South. But all cooperative enterprises must be unselfishly conducted if they are to last. Corporations are run on the principles of high finance; cooperation should be run on the principles of low and just finance. Shareholders in the cotton Court to be a due or an undue re gin I spoke of are paid 6 per cent in straint of trade.

The net earnterest and no more. ings are distributed as dividends to the farmers who bring their cotton to the gin. Profits are apportioned not on the basis of capital invested, but on the volume of business actually done. That is genuine cooperation. When profits are paid to sharehold. ers, the enterprise is corporative and not cooperative."

Easter comes early this year, but the trustees of Shaw's Garden are preparing for a big show for Easter Sunday, and voted unanimously to throw the garden open Easter Sunday, March 23. More than 500 Easter lilies will be shown and thousands of the finest and rarest varieties of hyacinths and tulips, including many novelties. Two announcements of importance in connection with the garden were made by the trustees. The first was the offering of a prize for the rarest and most meritorious new flower discovered, and the other the appointment of Dr. Jesse Moore Greenman as curator of the herbarium. Dr. Greenman is recognized as an authority on systematic and advanced botanty, both in the United States and the old World. Dr. Greenman will have the care and be in charge of the development of more than 698,000 different specimens that are included in the herbarium collection. The herbarium really was started in 1858, when the late Henry Shaw, millionaire philanthropist, founder of the Missouri Botanical Garden, purchased the herbarium of Prof. Johann Jakob Bernhardt, of Erfurt, Germany, which numbered about 70,000 speci-The prize for the new flower mens. will be awarded by the garden at the third great International Flower Show in new Grand Central Palace, New York, April 5-12. The competing plants or flowers may be either foliage or economic, the only stipulation being they must be absolutely new to commerce. The prize is \$500 in money The garden at this show will exhibit several novelties.

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The Supreme Court's modification of the Sherman antitrust law to invoke "the rule of reason" in decisions upon restraints of trade, is attacked in vigorous terms in a report presented February 27th to the Senate by the Interstate Commerce Committee, which points out the dangers of "uncontrolled and unguided judicial discretion," and makes emphatic de mand for amendments to the Sherman law to remove from the courts the power to determine what are "reasonable" restraints on trade. The report is the result of the committee's long investigation into the operation of the anti-trust law. The committee recommends new laws to define exactly what combinations are unlawful, so that both the business interests and the courts will have a standard upon which to proceed. It recommends a federal interstate corporation commission, with power to supervise corpor ations, pass on and approve combinations and agreements and take over the work of dissolving illegal corporations, such as the Standard Oil Company or the American Tobacco Company.

It is inconceivable, says the report, that in a country that is governed by a written constitution and statute laws that the courts can be permit ted to test each restraint of trade by the economic standard which the individual members of the court may happen to approve. As the anti-trust statute is now construed it is impossible for any association of men, how ever diligent they may be in seeking advice and howeve willing to follow it, to know whether what they are de ing or what they are about to do will be ultimately found by the Supreme

NOTES FROM AN OHIO FARM.

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The County Farm Adviser: Look Well to His Qualifications.

By C. D. Lyon.

We had spring weather from February 14th to 21st, then a cold wave, snow flurries and real winter. Six years ago we got about two-thirds of our plowing done in March, and then came pretty near never getting the other third done in April, as it was the worst April on record, snow up to May 1.

I have been getting a good many letters concerning the Farm Adviser matter, some asking my opinion, others giving theirs, and still others telling me some things I did not like to hear. It seems that with the adoption of the county adviser plan, there has sprung up a crop of men who think that they have been specially appointed to do the Moses act, and to lead the farmers out of the wilderness of agricultural ignorance.

Some of them are doctors without patients, and some lawyers without clients, some are men who have been abject failures as farmers themselves and who have not touched a farm implement in ten years, while others are just plain politicians who think that the world owes them a living.

In my opinion, the politician who knows absolutely nothing about farming would make a better adviser than the man who has failed as a farmer himself, as the politician would shift around and try to hold on to his job, while the failure would bring failure on others who listened to his plans.

The man who will make a successful county adviser must be a man who has-had practical farm experience as well as technical training, and be a man who can get along with the people who are hiring him and paying his salary.

If technical training were all that is necessary the problem would solve itself within a few years, as the agricultural colleges could put in a special course in that line, but the rub comes here—the young graduate would lack the experience, and the plain old farmer would lack confidence in him.

It seems to me that the young man who is the graduate of an agricultural college could fit himself for the position of county adviser by getting right out on a big farm, or a little one for that matter, putting in ten hours at practical farm work and two hours of study per day, for about ten years, quicker than in any other

We often hear it said: "This graduate is a young man right off the farm, raised on the farm, and knows all about the practical side of farm life," but while sometimes he is, very often he is not.

He is often the son of a country preacher, lawyer or doctor, frequently of some wealthy man who lives in town and makes farming his fad, which has led him to send his son to the College of Agriculture.

Even though he be the son of a real farmer, he has been five years in high school and four in college, nine years away from actual farm practice.

To be perfectly frank about the matter. I would rather send my sixteen year old son to college and have him taught the strictly scientific part of agriculture by a faculty made up of young men who are recent graduates, than to trust these same graduates with the problems which must be met by the county adviser, and while I might study a good while about subscribing \$10 toward hiring one of these young men in the capacity I am writing of, I would not hesitate a moment in subscribing \$25 or more to put an experienced man in charge of the work.

While I want to see the number of tion,

county advisers doubled this year, at the same time I would rather see the work stop where it is today than to see four or five big failures made by putting men in charge of the work who are not fit for it. There are capable men in the country, some of them graduates and some of them not, and if the people go a little slow, and not employ a man simply because he has a big wad of testimonials and wants the job, it will not be impossible to fill all the places with good men.

#### THE NORTH MISSOURI FAIR CIRCUIT ORGANIZES.

Editor RURAL WORLD: meeting of the members of the North Missouri Fair Circuit, held in Trenton, Mo., on February 22, the following were present: D. Clark Thomas, representing Knox City, Mo; T. R. Green City, Mo.; R. E. Maupin, Pattonsburg, Mo.; J. W. Schooler and J. M. Myers, Trenton, Mo.; Mr. Morrow, Plattsburg, Mo., and E. B. Iden, Smithville, were admitted to the circuit. J. M. Myers, Trenton, Mo., was elected Circuit President and T. R. Davis, Green City, Mo., Circuit Secretary.

The following dates were assigned: Knox City, Aug. 12-15; Green City, Aug. 19-22; Pattonsburg, Aug 26-29; Trenton, Sept. 2-5; Plattsburg, Sept. 10-12; Smithville, Sept. 16-18.

Uniform classes and purses were practically adopted, as follows: Twoyear-old trot, \$100; 3:00 minute trot, \$100; 2:35 trot, \$300; 2:25 trot, \$300; 2:17 trot, \$300; 3:00 pace, \$100; 2:30 pace, \$300; 2:19 pace, \$300; 2:13 pace, \$300; free for all pace, \$200.

Entries close July 15th, 1913.

The first four towns agreed to offer the following special show rings: Best Percheron stallion, \$1,000; best Shire stallion, \$1,000; best harness horse, mare or gelding, \$1,000; best saddle horse, mare or gelding, \$1,000.

Entries close August 16th, with 5 per cent entry and 5 per cent from T. R. DAVIS, all winners.

Circuit Secretary.

#### WHICH?

Half a day testing seed corn, or two days planting every third hill and twenty acres the second time-Which?

First-class seed at \$3 per bushel, and sixty bushels per acre, or "any old seed" and thirty bushels-Which?

Ten loads of manure per acre and sixty bushels of corn, or let the manure lay and twenty bushels-Which?

Three cuttings of alfalfa per year and good feed, or one cutting of timothy and poor feed-Which?

Pure bred sires and a uniform herd, or scrub sires and all sorts of cattle, sheep and swine-Which?

Fifteen dollars service fee to a pure-bred stallion and a \$100 colt, or \$5.00 to a scrub and a \$40 colt-Which?

A dollar a piece for fruit trees of the tree peddler, or 25 cents a piece for those true to name from the nurserv-Which?

The farm adviser might prevent the loss of \$25,000 per county per year, and will cost about \$3,000—Which?

You might skim over 60 acres and get 1,800 bushels of corn, or by good cultivation get 1,500 on 30 acres-

bring a profit of \$10-Which?

Set a fruit tree and cultivate it, it will grow four feet a season; set one in the grass and it will die-Which?

After seeing the automobile show at the Coliseum everybody will be longing for the time when they own one. The beautiful up-to-date machines on exhibition were an inspira-

#### ITEMS OF INTEREST.

A little work now with the drag will do more to benefit the roads than a lot of work later.—Sumner Press.

New York state puts \$5,000,000 a year on her roads. Is Missourl keeping pace with other leading states in proportion to her ability?-Bolivar Herald.

The acre-yield corn contests in Pettis county are arousing wide interest. There are sixty-four entrants in the junior class and thirty-five in the senior. Cash and utility prizes are offered.

By the sale of 205 fat mules in Callaway last week for \$47,186, the season's sales are pushed over the half million mark, the 2,363 head that have gone to market bringing \$500,105.25. Several hundred mules are still on feed in the county.-Fulton Gazette.

Lehnen & Gilliland sold this week twenty-two head of the best mules ever sold in Montgomery or adjoining counties. They brought \$275.00 per head and were sold to Howard Bailey of St. Louis. They were shipped out over the Wabash Sunday night.— Wellsville Optic-News.

Montgomery City is patting itself on the back on account of the success of the stock sale held there last Monday by Earnest and Hayden. Some fifty head of mules and horses, and some Jersey cows were advertised as an attraction and drew a big crowd of people to town.-Jonesburg Journal.

Miss Louisa Fahrni, four miles northwest of Russellville, has a tomato plant at her home which is six feet tall and has about eighty-five blossoms on it. Miss Fahrni's plant yielded one ripe tomato Christmas and one New Year. The plant now has four large and six small tomatoes on it.-Russelville Rustler.

Kelly B. Wilkerson deserves the thanks of farmer-stockmen in this vicinity for starting the movement to prevent the spread of hog cholera and for bringing Dr. Conoway here to talk to the farmers about using precautionary measures. Mr. Wilkerson is one of the County's most progressive citizens.-Mexico Intelligencer.

A lady whose veracity cannot be doubted, reports having seen a hearty and healthy looking young grasshopper basking in the sunshine Satur-Volunteer lettuce day afternoon. large enough for use in February is rather unusual even for the mild Ozark climate, but that is what may be seen in this section now. Wish the greens would come along.-Ozark Democrat.

J. Mart Haire, who has been sick most all winter, was very agreeably surprised one day last week when several of his neighbors came to his home and cut and prepared thirteen good loads of wood, ready to burn. Mrs. Haire, assisted by her daughter, Mrs. Everett Martin, prepared a good dinner for them and they all had a good time, and their work was very much appreciated by Mr. Haire.-Laclede County Republican.

Last Saturday C. L. McMackin & Son had three customers who came into their store in response to an advertisement that they would sell any article in their line shown in any catalog in Two big dogs will cost as much to the United States issued by a catalog keep as six sheep, and the sheep will house, and save the freight. These three customers were not only convinced, but the sum total of purchases by the three was \$211. If every merchant would do the same thing, there would be less money sent out of the county.-Marion County Democrat.

The greatest improvement noticeable in this county in the past few years is the improvement in farm homes and outbuildings. A few years ago it seemed that the majority of

the farmers took very little pride in their dwellings, smoke houses or barns, but such is not now the case. Many of the old log houses have been replaced by neat frame houses and the yards are well kept; barns are better and bigger and give more protection to the stock in bad weather. Altogether the change is very noticeable, and work that has been done in this line is commendable and of value not only to the owner, but to the entire county, as it induces the stranger to sit up and take notice and the buyer to pay more for land when he sees he is in an up-to-date community.-Perry County Republican.

The object of the Moberly meeting of the Federation of Missouri Commercial Clubs, on the 25th and 26th ult., which is composed of representatives from the Commercial Clubs of Missouri, is for the purpose of effecting state wide organization and co-operation among the business men and farmers and others interested in the welfare of the state and community and willing to promote the business interests of both state and community. The farmers, the merchants and the mechanics, in fact every class of business is included and united in this club. It is recommended that all the Commercial Clubs throughout the state so extend this organization as to unite the sarming community and the business interests of every town, large and small in the state. The success of the town of Montgomery and the farming community in organizing and raising the necessary capital to rebuild and operate the mill here shows what a union of two communities can do.-Montgomery Standard.

#### GOOD ROADS.

With rare exceptions the new Congressmen who will begin their duties at Washington with the incoming administration are pronouncedly in favor of federal aid in improving the highways of the country Hon. C. F. Curry, Third California:

"I believe in national participation and federal aid in highway construction, in inter-state highways reaching into every section of the country, provision for the payment of which shall be equitably apportioned among the several states and the federal govern-ment, when a proper basis of co-operation for the construction of such roads shall have been arrived at."

Hon. Frank T. O'Hair, Eighteenth Illinois: "Speaking to the point, I will say that I am in favor of good roads, and that the government shall formulate a system by which government aid may be bountifully expended in assisting in the upbuilding of our roads all over the country."

Hon. Allen W. Barkley, First Ken-tucky: "Nothing would conduce more to the prosperity and happiness of our people than a general system of improved highways, and I am convinced if this result is to be brought about the national government should co-operate with the States in the permanent improvement of their roads."

Hon. Allan B. Walsh, Fourth New "A net work of good roads Jersey: well made and properly maintained would, I believe, be a large factor in the fuller development and more thorough unification of the whole country. Proper maintenance of roads when made tends toward economy. Both the making and maintenance of good roads would seem, therefore, to be important objects of state and national legislation."

Hon. Howard Sutherland, Member of Congress at Large, West Virginia: have advocated federal aid in the building of good roads for many years, and will do all that lies within my power to advance the federal aid nlan and assist in every other way in agitating the subject of good roads and in building them."

### Home Circle

Written for THE RUBAL WORLD I IS MY PAPA'S BALENTINE.

By Mrs. May L. (Monroe) Carter. With a casual glance as I passed along I decided at once something had gone wrong,

For I saw my dear friend in his office chair

Frowning intent with a preoccupied

Lo! A vision of beauty and childish grace,

Curly hair, rosy cheek and bright smiling face, With a sweet little voice piping low

and fine, "I is my papa's Balen-Saying, see! tine.

"I is doin' to buing my papa home today

And nen wif mamma and I he muf stay.

My mamma she cwy and cwy and feel so bad

And say, it is de first twarrel we ever had.'

"When nay twarreled he head was badly aching But.now her poor dear heart is almost

bweaking.

Papa went to de tlub and stay all night long. Mamma say it not wight, but was all

wong. My papa sir, has not sleeped de whole

night fru; Don't oo fink dat is de weason he did do

So naughty, and do to de office to stay Wifout his bweakfast, dis bwight Balentine day?"

She thought of her errand and tossed back her curls

And flew away the happiest of girls. She crawled up the steps, at last reaching the top;

Alas! the tiny form there came to a stop.

So I mounted the steps at two bounds or more,

Caught up the "Valentine" and opened the door;

With an apology, I'm sure was not heard. For the man at the desk neither spoke

nor stirred. Until the piping voice of the child rang

out With a joyous thrill and melodious

shout. "I has tum to tal upon oo papa mine, Tant oo see I is oor 'ittle Balentine.

"I tum from mamma who has cwyed all iss day

Tause oo my dear papa, had done away.

Astounded he gazed at his child a short while,

Then presses her to his breast with a kiss and smile.

He, closely folding and fondly caressing,

Exclaimed, "Nay, Millions could not buy this blessing!" I closed the door and passed out into

the street. There an old acquaintance I happened to meet.

Glancing up the steps, I beheld once more,

Thrice blessed Valentine in half open door.

#### NEW BEAUTY IN ONE WEEK

Ladies everywhere are learning the great value of Beautiols, the remedy that removes brown spots and Freckles, modifies Wrinkles and aids in permanently curing Pimples, Black Heads and all Facial Blemishes. Price 50c per box. Agents Wanted BEAUTIOLA COMPANY, Dept. R, Betiola Bldg., 2024 Olive St., St. Louis,

On papa's shoulder her dear curly head lay,

For her pleading tones has chased the frowns away.

With a smile he hastened toward the home nest, And dear little Valentine may tell you

the rest. Blessed are peacemakers, thrice blessed are they,

For they shall be called "Children of God" alway.

Written for THE RURAL WORLD. GROVES AND GLADES.

I know a place of rare paradise-like peauty and of picturesque scenes; a delightful spot, "far from the madding crowd," and not so many years ago those Elysian groves and glades were

By Mrs. M. H. Menaugh.

only a beautiful solitude. The treecrowned heights and velvet slopes were resting places for diaphanous mists and dusky brooding veilings; then came one with an artist's eve. and a poet's soul, and 50 glorious acres entered upon their worthy heritage.

It is out from the city's noise and turmoil, so far remote that one seems far from the thriving haunts of man when entering its inviting gates. Away beyond charming O'Fallon park; the slumberous calm and tender hush of the two great cemeteries; and the happy homes and busy marts of old Baden: one finds it very accessible now that modern talent and mechanical skill have devised the Mercury winged

It is on the west side of North Broadway, close to the foliage darkened ength of Hall's Ferry road. One finds different hostages to Pan hung out on shrub and sward and tree, at the different seasons of the year. Just now, toward close of February, the young Lombardy poplar is very erect and the bark has a significant green tinting that suggests an early spring. weeping willow is more pensive than ever, and the peony beds are green and erect as rushes. The beauty of the all enduring evergreen trees are apparent as they rise up deeply, darkly and intensely strong in their own peculiar emerald coloring. Those trees are in an artificial grove, designed, arranged and attended by the owner of the place.

The topography of the spot would delight a civil and military engineerthe open sward leading away in a level to where the river sometimes surges in; and that splendid height that nature planned equal to a war exigency. where batteries might be planted to protect rifle pits going toward the east.

The natural drainage, too, is declared splendid, and the billside grows purple with the velvet tinting of the grape, the strong vines and rich fruit springing up almost by magic.

In all the river front, from Chain of Rocks to the mouth of the Des Peres. there is only one other place of equal beauty, and it is the magnificent location called by a very unpoetic name that is right on the south side of the estuary of the Des Peres.

In the old days, if the Indians were not too familiar with beauty to go into any new raptures, surely a wandering tribe coming by land or water rested themselves at this Arcadia, and vowed it an earthly haunt of the great spirit. The fifty acres are not all high land: there are meads and what are called "braes." There is something in the Scotch tongue that would well suit my place of beauty; it is the word "Bonnie."

tural aspect has been careful ly aided by the woodland and natureloving ideas of the owner. He uses the site as a location for his business: but it is high and far above only its work-a-day value with him.

He finds in its too glorious precincts a field for his artistic abilities, as are evidenced on every side, from the log cabin half way up the hillside, under bending boughs, the miniature lake

# DEFORMITIES CURED



CLUB FEET of any variety, and at any reasonable age, can be made straight, natural and useful. No plaster paris, no severe surgical operation, and the result is assured.

POTTS DISEASE when treated in time should result in no deformity; paralysis can be prevented and the growth not interfered with. Write for information and references.

SPINAL CURVATURE Recent cases usually make good recoveries and even those of long standing do well. No plaster paris, felt or leather jackets. Write for information and reference.

HIP DISEASE in the painful stage can be relieved and the inflammation permanently arrested. Shortening, deformity and loss of motion can often be corrected. No surgical operations or confinement.

INFANTILE PARALYSIS We can refer you to many responsible people all over the country, whose children, afflicted with Infantile Paralysis have been practically restored at this Sanitarium.

DEFORMED KNEES AND JOINTS of many varieties ods of treatment, and if interested you should know about it. This is the only thoroughly equipped Sanitarium country devoted exclusively to the treatment

of crippled and paralyzed conditions. ILLUSTRATED BOOK FREE Write us for illustrated book be sent free on request to an

THE McLAIN ORTHOPEDIC SANITARIUM **891 Aubert Avenue** ST. LOUIS, MO.

and rustic bridge that spans it, to the carefully constructed bird house intended for feathered inmates of diminutive build. To the north there are dove cotes and very commodious bird dwellings.

The very outhouses on the estate are beautiful and in harmony with the prevailing tone. The workmen dwell in comfortable homes erected in one of the finest coignes of vantage

A young grove of six-year-old trees are an especial pride; they have attained a splendid growth and are arranged in a symmetrical design.

There is a rugged, gnarled old apple tree near the gateway. It dwells in solitary state and affords picturesque shade during warm days, and when its time of fruitage is at hand, it makes a great effort and drapes its low hung branches with hard, green-coated fruit; the effect of this matronly looking tree against a background of greensward and towering giants of the forest with sunset gleams or cold high lights drifting between the dark trunks, has a haunting charm that would bewilder an artist.

The tout ensemble is almost incomprehensible; it lacks only the multitudinous tintings of Corfu or the sea and sky of Naples to render it a classic in clay.

Even if all the leafy crowning and grassy carpeting were taken away, the groves leveled and the birds flown, there would be the ineffable beauty that lingers in curved lines and gently swelling and declining distances.

There is only a small portion of the river visible, a broad band that is pearl gray in the landscape coloring; it seems that the Mississippi defies or violates the law of water seeking a level, and there it rises above its source to contribute its quota to the magic of the scene. In this time of year the Illinois shore is a dusky, faraway line, and in the near foreground there is the sere leaf, withered grass, brown stubble and turned under crop that gives tidings of a farmer's proximity.

From the hilltop the view is far in extent and sublime in substance; southward one sees Baden, the simple, happy northern end of a great city; south by east some of Baden and some "far blue hills" that rise skyward in another state. North by west, artistic frame houses, glimpses of the Hall's Ferry road, and the old Clay farm, now an adjunct of Calvary Cemetery. There are tances that one might believe a place of continual music from the flutes of Lydia and pipes and lutes of Arcady. And best of all there hovers the purest and most elevated of atmospheres. It is a sweet grove where health and happiness and innocence find a place of the tide came in." mars the poetic quiet, no unseemly small estate among the pines, when

person may enter in. There is an almost sacred air of reverence and veneration in the beautiful calm place, where families may come and well behaved young people who wish to breathe daisy-scented or new-mown hay laden gales; so the night stars never veil their gleaming faces because sacrilege has come into one of Nature's fairest temples.

#### Written for THE RUBAL WORLD. TIRED DRESS-MAKER WHO FOUND REST IN AGRICULTURE.

By Mrs. Annie Riley Hale.

Six years ago, Mrs. Ida Sutton of Wilmington, N. C., who had devoted 18 years of her life to the study of modes and the fashioning of gowns; and whose hands and brain had wearied of task which involved so many stitches, and the humoring of so many feminine tastes, turned her tired eyes toward the country. The great trucking development of eastern North Carolina, which was just getting under way, was on everybody's tongue. Tales of the wonderful yields in lettuce, beets, beans, and strawberries, all in one season; and the golden returns which these crops were bringing in from the eastern markets, swam alluringly before this dress-maker's vision.

The result was, that she purchased 6 acres on "the Sound," about seven miles east of Wilmington, on which was a small wooden "shack," and installed in it, her aged father, who was alone, somewhat broken in health, and glad of the opportunity to "play with 6 acres" of ground in the open. The first year's crop of truck was not remarkable, and there had been the usual obstacles and discouragements incident to beginners in horticulture. But the old man had gained strength and hope in the new occupation, and enough faith to plant a number of fruit trees. The second year's crop was much more gratifying, and Mrs. Sutton added more acres to her original plot each year from the proceeds of her dress-making. Two years ago, she gave up her city residence entirely and her dress-making clientele, moved out to her farm, and took charge of field operations in person. With characteristic vigor and enthusiasm, she directed the "hands," she directed the planned the crops, studied agricultural bulletins and farm journals: planted vines and shrubs, placed rustic seats under the pines, and trained honeyfoliage-hung dis- suckle and columbine over them; a poultry yard was constructed by running a wire netting around a clump of pine trees, and placing nests and coops under them; a similar enclosure was made for the ducks, who found a naturally provided swimming-pool "when Mrs. Sutton had recreation; no harsh word or act ever not dwelt more than a year on her

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### **Utterly Wretched**

Nervous Prostration Long Endured
Before Remedy was Found.
Miss Minerva Reminger, Upper Bern,
Pa., writes: "For several years I had
nervous prostration, and was utterly
wretched. I lived on bread and beef
tea because my stomach would not retain anything else. I took many remedles, but obtained no relief until I
took Hood's Sarsaparilla, when I began
to gain at once. Am now cured."
Pure, rich blood makes good, strong
nerves, and this is why Hood's Sarsaparilla, which purifies and enriches the
blood, cures so many nervous diseases.
Get it today in usual liquid form or

Get it today in usual liquid form or chocolated tablets called Sarsatabs.

she began to plan a more commodious house than the aforesaid "shack," the discomforts of which she had borne heroically meanwhile. Soon a neat, 6room cottage was reared in the midst of the truck patches, and the morning we drove out to see her, we found her nainting chairs and flower-stands on the front porch of her newly completed domicile, through whose large, welllighted rooms, and wide reception hall, she conducted us with manifest and justifiable pride. It was truly a noteworthy achievement for one woman's energy and pluck, and might well serve as inspiration to many another city-worn toiler. She told us that her nucleus of 6 acres had grown to 117, all paid for, and fully half of it under cultivation. The character of the soil in this locality, the fine sandy loam which makes truck-farming so profitable, affords the best example of the lucrative returns of intensive cultivation from a few acres; so that the owner of 40 acres of cleared and tillable land here, is regarded as a very prosperous and opulent landowner. Mrs. Sutton showed us over the place immediately surrounding the housethe young orchards of choice pear and pecan trees; the grape arbors, among them the famous "Scuppernong" of his region; the large patches of lettuce, cabbage, onions, and strawberries-all growing without covering in the open; and she talked glowingly of the future productivity of her crops, when she had been given time to get everything in "ship-shape," as she hoped and planned.

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From the corner of her verandah, looking North and south, may be seen dotted here and there, many country villas, much more pretentious in appearance than the Sutton home, though probably none which shelter more genuine peace and contentment. Far to the South, gleam the piers of the "Wrightsville Beach," and the roar of the Atlantic surf, softened by distance, mingles with the rythmic soughing of surround the retreat of this city modiste. It was easy to understand the soothing and healing effect of these sounds and this environment, upon aching muscles and frayed nerves, and we did not wonder at this woman's farming enthusiasm.

#### OBJECTIONS TO ONIONS OVER-THROWN.

While nearly everyone has a natural craving for raw onions in the early spring, many forbear on account of the odor, while others ob- tritive value of the cake. ject to eating them because they taste them for a long time afterward. It must be borne in mind that there is a great difference in onions. Old ones are naturally much stronger than new, and red ones are strongand Bermudas are more delicate and and eight times as much as potatoes. less odoriferous than our homegrown ones, therefore preferable for eating raw. To relieve the breath from suspicion, a little sugar eaten after the onions, will banish the odor, as will also coffee or parsley moistened with vinegar.

Try a small ad at 1 cent a word. It dishes.

Written for THE RURAL WORLD. SUNSHINE.

By Albert E. Vassar. Oh be cheerful, Oh be happy,

While you're passing on life's way; Make your work a thing of pleasure, Casting all your frets away.

Life is simply what we make it: Make it sunshine, then we say,

Just cheer up and start to smiling, And be sunny all the day. St. Louis.

Written for THE RURAL WORLD. STYLISH BUT NOT COSTLY.

By Early Alice.

Did you know why Mrs. Green's girls look so neat and stylish? It isn't the amount of money spent on their clothes; it is a matter of patterns, buttons and thread.

When Mrs. Green makes a new dress she doesn't begrudge the twenty cents for pretty glass buttons to match the dress. Yes she could get white or smoked pearl for ten cents but she is trimming a green dress-her nice buttons cost ten cents more but only see how they add to the looks of the girls' school dresses.

Then the thread is bought just the right color to match the goods. Brown dress is made with brown cotton, red dress is sewed with red thread. The colored thread costs just the same as black and white, yet so many of us country women never buy anything but black and white thread. No matter what color our calico or gingham house-dresses are they would look neater if the white thread didn't stare at us from that bias fold

There is the matter of patterns to consider last, but not least, because right there is the most vital point to consider in economy of home dressmaking. When we hear a woman say she just cuts her children's clothes by guess we know she has wasted enough cloth to pay for a pattern besides the dress looks all out of proportion and dowdy.

Children that are not neatly dressed are more sensitive and will not learn at school with the happy abandon other stylishly dressed children go about

their school duties.

Think of these things, mothers, and when you economize let it not be in thread and patterns.

#### JACKSON CAKE.

A very rich and palatable cake is Jackson cake, which is prepared as follows: Put in a mixing bowl, in the wind through the tall pines, which the order named, one cup butter, four eggs, one cup brown sugar, one and one-half cups granulated sugar, one teaspoonful mixed spices (cinnamon, nutmeg, and a bit of ground clove); two teaspoonfuls baking soda sifted with five cups flour; one cup raisins, one cup currants. Add sour milk or butter milk enough to wet the ingredients, and after mixing, bake in moderate oven one and one-quarter hours. The addition of nuts, about a cupful, further enhances the nu-

#### FOOD VALUE OF NUTS.

Rich in nourishment, nuts are an unappreciated substitute for meat at the Lenten meal. Peanuts, for example, afford twice as much nourer than white. Both the Spanish ishment as beef steak, rice or beans,

> Next in food values to the peanut. comes the chestnut, which is so starchy as to be almost a bread. In Italian kitchens, it takes the place of cereals. Chestnuts are used in soups, sauces, purees, forcemeats, entrees, and all manner of sweet dessert

Fresh almonds are exceedingly nu-

tritious, but prove far more digestible when blanched. This is quickly done by covering the nut meats with boiling water, letting them stand three or four minutes, then rubbing off the brown skins between the thumb and forefinger. Dried, then salted in the oven, almonds make an excellent digester, a couple of them, carefully masticated, frequently relieving indigestion from other causes.

English walnuts, hickory nuts, and pecans are also high in nutritive value. The black walnut, which is stronger in flavor, is growing in favor for cakes, salads, and pickles. The pistachio seed or nut, is being imperted in increasing quantities, and the little green kernels are not only used for coloring and flavoring but as digesters.

#### CARE WITH MATCHES.

The greatest care should be taken in handling matches. Ten per cent of the fires reported in this country are found to have been caused by the manufacture. After July 1st this careless use of matches. At least three hundred children are annually burned to death while playing with matches. None but safety matches when writing advertisers.

FEATHER BEDS BARGAIN

\$8.40 buys from us one New 36 lb. Feather Bed and one pair 5 lb. New Feather Pillows. Satisfaction guaranteed. Agents wanted. Ad-dress: SOUTHERN FEATHER & PILLOW CO., Dept. 201, Greensbore, N. C.

Earn \$25 per Week.

Learn Automobile trade; be employed year round; travel. Day and night classes. Write:

AUTO SCHOOL OF ST. LOUIS, Dept. 75, 1915-17 Pine St.

#### SILKREMNANTS

WONDERFUL BARGAINS IN POUND BOXES of beautiful Large Slik Remants for fancy work, quilts, portieres, pillows, etc. One pound will make a grand bedspread. Send 10 cents for a big package of lovely samples. If not delighted return them and get 25 CENTS for your trouble. Agents Wanted. Hammond Slik Co., 302 Spangler. Pa.

should be used about the home. By safety matches is meant preferably the new sesquisulphide match, which is not only safer to use and keep in a house, but much more humane to match will be for sale everywhere.

Please mention RURAL WORLD









#### PATTERNS FOR RURAL WORLD READERS.

9512. Girl's Dress.

Cut in 4 sizes: 8, 10, 12 and 14 years. It requires 3% yards of 44-inch material for a 12-year size.

9499. Girl's Empire Dress.

Cut in 4 sizes: 2, 4, 6 and 8 years. It requires 3 yards of 44-inch material for an 8-year size.

9498, Lady's Apron.

Cut in 3 sizes: Small, medium and large. It requires 2% yards of 36-inch material for a medium size,

9502. Lady's House Dress

Cut in 6 sizes: 32, 34, 36, 38, 40 and 42 inches bust measure. It requires 4% yards of 44-inch material for the 36-inch size.

9490. Lady's Waist with Vest.

Cut in 6 sizes: 32, 34, 36, 38, 40 and 42 inches bust measure. It requires 21/4 yards of 40-inch material for a 36-inch size.

9455. Skirt for Misses and Small Women.

Cut in 5 sizes: 14, 15, 16, 17 and 18 years. It requires 4% yards of 44inch material for a 17-year size.

9469. Lady's Corset Cover and Drawers Combined.

Cut in 3 sizes: 34, 38, 42 inches bust measure. It requires 31/2 yards of 36-inch material for a 38-inch size.

9509-9491. Lady's Costume.

Waist 9509 cut in 5 sizes: 34, 36, 38, 40 and 42 inches bust measure. Skirt 9491 cut in 5 sizes: 22, 24, 26, 28 and 30 inches waist measure. It requires 51/2 yards of 40-inch material with 1% yards of 27-inch material for the waist tucker, for a 36-inch size. This calls for two separate patterns, 10c for each.

Pattern No...... Size.....Years Bust.....in. Waist.....in Name....

Address.....

RURAL WORLD readers should note that in ordering patterns for waist, give bust measure only; for skirts, give waist measure only. For children give age only, while for patterns of aprons say large, small or medium.

#### WEEKLY MARKET REPORT

Cattle and Hogs Higher-Supply Light -Poultry, Butter and Eggs Steady -General Review of Market.

CATTLE-The run of steers' embraced about 20 cars, and the way buyers ran over each other to get kills it looked like the supply was way short of the demand. Competition was a prominent factor in the trade and values advanced 10c to 15c over the close Friday and are a good quarter higher than the corresponding time last week. Quality was good and the top was \$8.75, paid for some choice grade 1,270-pound steers. The big end of the offering were good quality and sold from \$8.10 to \$8.50. A few lightweight medium-grade steers sold at \$7.85 and some medium-grade yearlings sold from \$7.35 to \$7.70. Not many common steers were offered and between the feeder buyers and the kills they found a ready outlet.

The demand for heifers was a good bit in excess of the supply and keen competition caused an advance of 10c to 15c over the close last week. The market was "red hot" and it was a price and sell affair all the way through. All grades of heifers were in request, but the good to choice kinds were the favorites. Quality was good and odd-head lots sold as high as \$8.25. The car-load top was \$7.65 and the good-grade kind of the right weight sold from \$7 to the top. Medium-grade heifers sold at \$6.50 and \$6.75 and very few common enough to sell under \$6 arrived.

Medium to good cows got a strong call and prices were 10c to 15c up from the close Friday. The good-grade kind were particularly good sellers and the top reached \$7.50. A good showing of the good-weight kind sold from \$6.50 to the top and the medium grade sold from \$5.25 to \$6.25. The demand for canners and cutters was good, but values remained steady with last week Most of the canners sold at \$4 to \$4.15.

Fresh supplies of stock and feeding cattle were light and the market was unchanged from the close last week. Several countrymen were in after feeders, but not a great many cattle changed hands. The bulk of the stock and feeding steers are breasting the \$7 mark and the medium kind around \$6.75. Feeding steers with weight were lacking and several calls were T-filled.

#### Country Produce.

GRASS SEEDS (per 100 pounds)-Good grades of all varieties in light offering (being firmly held), and in demand at full quotations. There is a great deal of inferior to fair timothy and some inferior and ordinary grades of other seeds offered, which are dull and low priced. Millet-Common or white at \$1.20 to \$1.25, German at \$1.35 to \$1.40, mixed down to \$1 to \$1.05. Hungarian at \$1.10 to \$1.20; timothy at 50c to \$1.00 for tailings to \$2 to \$2.50 for trashy, \$2.80 to \$2.95 for fair, \$3.10 to \$3.25 for prime and \$3.30 to \$3.35 for choice bright; clover at \$6 to \$12 for weedy up to \$17 to 17.50 for clean; redtop at \$8 to \$9 for recleaned—inferior, trashy, etc., less. Sales: Timothy-20 sacks at \$2.67, 21 at \$3, 1 at \$2.60; redtop-2 sacks at \$5; clover-3 sacks at \$5.50, 4 at \$16.65; also 1 car clover to arrive and 1 car poor

STOCK PEAS-Sales 10 sacks whippoorwill and 4 sacks new era at \$2.01.

\$1.10 per 100 pounds. SUNFLOWER SEED-At \$2.75 to

\$3.25 per 100 pounds.

ONION SETS-Bottoms per Lushel at \$1.25 for red and yellow and \$1.40 for

DRIED FRUIT-Apples: Evaporated rings-inferior 3c to 31/2c, fair to ure the interest taken in the adverprime 3%c, choice at 4c; chops, cores tising columns.

and peelings 1/2c to 3/4c for sun-dried to 1c for bleached evaporated; sun-dried—dark and poor 2c to 2½c, large bright quarters 31/2c. Peaches-s. d. halves 5c to 6c.

#### Provisions.

Strong and higher on pork, steam lard and loose d. s. meats; steady and firm on green, s. p. and s. c. meats. Demand quiet.

PORK, f. o. b.-Standard mess in a jobbing way nominally at \$20.25.

LARD-Prime steam nominally at 10.50c to 10.60c f. o. b. at close. le-rendered at 11 1/4 c in tierces.

GREEN MEATS-Hams-10 to 12 lb. average at 13% to 14c; 12 to 14 lb. average at 13½ to 13%c; 14 to 16 lb. average at 13% to 13½c; 18 to 20 lb. average at 13% to 13%c; skinned hams, 131/8 to 141/8c; bellies, heavy to medium at 11% to 12%c, 6 to 8 lb. average at 16½c, 8 to 10 lb. average at 161/4c, 8 to 10 lb. average at 161/4c, 10 to 12 lb. average at 15c, 12 to 14 lb. average at 14c; shoulders at 101/4 to 101/2c, skinned shoulders at 103/4 to 11c; picnics at 9 to 9%c; pork loins at 14 to 141/2c for light and 13 to 131/2c for heavy; lean outts at 111/2 to 121/2c.

S. P. MEATS-Hams-10 to 12 lb. average at 13% to 13%c, 12 to 14 lb. average at 131/2 to 135/8c, 14 to 16 lb. average at 131/4 to 13%c, 18 to 20 lb. average at 13% to 14%c, according to age; skinned hams at 131/4 to 141/2c, according to age; shoulders at 9% to 10c, picnics at 8% to 91/2c; clear bellies at 13c to 151/2c.

Poultry, Butter and Eggs.

EGGS-Active, but owing to large receipts, ruled slightly lower. Current receipts at 181/2c including new cases, 181/4c in good secondhand cases and 18c cases returned; miscellaneous lots from 14½c to 17½c; Arkansas and Southern running light in weight 1c per dozen less. Duck eggs at 25c and goose eggs at 40c.

BUTTER-Fresh make of all grades in fair demand and steady, with barely ample supplies; old or held stock plentiful, dull and nominal. Current make: Creamery-Extra, 35c. first, 30c; seconds, 28c; ladle-packed, 24c. Packing stock (average receipts of roll included) at 19c-sweet fresh roll wrapped in cloth more

LIVE POULTRY-Receipts show a slight increase, but were still extremely light, and were bought up at full quotations. Broilers higher, while turkeys, young chickens, old hens, ducks and choice geese ruled firm, and when running very nice in quality brought a premium price. Turkeys-Choice dressing, 18c small and poor 11c. Fowls (hens) 13c. Chickens 15c, staggy young roosters 9c. broilers 20c. old cocks 7c. Geese-Full-feathered 9c, poor or plucked 6c. Ducks-Good run 16c, poor or plucked less. Capons-7 lbs. and over 19c 6 lbs. and under 17c.

#### Vegetables.

POTATOES-Market stronger on fancy sound stock, under liberal offerings and a fair demand, but dull on anything off in quality; fresh arrivals moderate. Northern, sacked on track: Rural at 50 to 52c, dusty do at 53c, burbank at 49 to 51c, fancy russet more; Red River early Ohio salable in a small way at 55 to 56c delivered, sandland Ohio at 49 to 50c delivered: frosted, mixed, undersized or otherwise in-

ONIONS-Market overstocked, dull and no sale for off stock and demand limited even for extra fancy. Fancy SORGHUM CANE SEED-At 80c to to extra fancy sacked red globe at 23c to 27c delivered—all inferior stock less, price dependent on condition and quality; sacked white at 40c per sack to 60c per bushel delivered.

> The want columns of a newspaper is the thermometer by which to meas-

### Cattle

#### ECONOMICAL BEEF PRODUCTION.

Bulletin No. 132, entitled, "Economical Beef Production," by H. R. Smith, has just been issued by the Nebraska experiment station. This report embraces fifty-two pages, and gives the result of four experiments in which comparisons are made of different rations suitable for producing beef in Nebraska, and of different types and breeds of cattle fed under like conditions. The general conclusions as published in the summary of this bulletin are as follows:

"(1) In comparing bran, linseed meal and cold pressed cottonseed cake each as a source of protein supplementing corn meal and silage, the cold pressed cake proved to be worth 50 per cent more per ton than wheat bran, and linseed meal 18 per cent more per ton than cold pressed cottonseed cake.

"In the use of each of these supplementary protein feeds with corn meal and prairie hay, the cold pressed cottonseed cake showed a value per ton 22 per cent greater than wheat bran, and the linseed meal 28 per cent more than the cottonseed cake.

"(2) Where alfalfa was used in connection with corn meal and silage, or corn meal and prairie hav, large gains were made without the use of a concentrated protein food. The gains in both experiments where alfalfa was fed were larger, less costly, and much more profitable. These experiments, supplementing what had previously been found, show that beef can be produced in Nebraska at a lower cost and with greater profit on a combination of the corn plant and alfalfa hay than on any other combination of foods available in the state.

'(3) These experiments show that corn silage gives larger gains than shredded corn stover when each is fed with corn meal and alfalfa, and for beef production is worth 60 per cent more per ton.

"(4) Corn stover has a value of 80 per cent as great as prairie hay, and the portion consumed is fully as valuable. Prairie hay at its usual market price is not profitable for fattening cattle.

"(5) In comparing a ration consisting of a heavy feed of corn meal, alfalfa, and a light feed of silage, with a ration consisting of a medium quantity of each feed and a ration consisting of a light feed of corn, alfalfa and a heavy feed of silage, yearling steers being fattened for market made cheaper and more profitable gains on the larged feed of corn and smaller feed of corn silage.

"(6) In growing calves to be fattened later for market, the cheapest gains were made on a liberal ration of corn silage and alfalfa, without grain, the cost of gains increasing in proportion to the amount of corn meal fed.

"(7) These experiments show that there is a great variation in the capacity of individual steers to make gains under like conditions. The data do not show that the individuals of one breed make larger gains than those of another breed. The variation in gain seems to be fully as great within a breed as between representatives of different breeds.

"(8) Type or conformation seems to be a controlling factor, the low-set, more compact types having something of an advantage in early maturity over the rangy types.

"(9) Gains seem to correlate to a considerable degree with body capacity as indicated by the size of the middle girth, the largest gainers having relatively larger middle girths at the same weight in most instances.

"(10) While the average gains made

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PURE-BRED REGISTERED HOLSTEIN CATTLE The Greatest Dairy Breed. Send for FREE Illustrated Booklets.
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by all dairy bred steers are nearly the same as those made by the beef bred steers up to the age of twenty-three months, the latter showed in most instances a higher condition of flesh, a larger proportion of high-priced meat, and sold for a higher price per hundred, returning larger profits to the feeder on the basis of the same initial cost per hundred."

#### VETERINARY NOTES.

We should quit thinking of tuberculosis as a hereditary disease and realize that it is an infectious disease. In extremely rare instances a calf may be born with tuberculosis, but such instances are so rare that they are unimportant.

In buying young cattle for breeding purposes it is decidedly safer to buy subject to tuberculin test from a herd where little or no tuberculosis exists. than to buy from a badly infected herd, even though the diseased animal does not react on test.

There is no satisfactory medical treatment for blackleg, but blackleg vaccine is a very good preventive. It may be obtained in many forms from different sources. The Veterinary Division, Experiment Station. University Farm, St. Paul, Minn., keeps constantly on hand a supply of government vaccine for free distribution to cattle owners and veterinarians.

There is probably no state in the Union where pure-bred cattle are 50 free from tuberculosis as they are in Minnesota, and no state into which a breeder can go and purchase with equal safety. When he buys in Minnesota he gets from the State Live Stock Sanitary Board, a certificate of tuberculin test made usually by the State. This certificate of test is practically underwritten by the State of Minnesota. The percentage of tuberculosis in our pure-bred herds is extremely low for practically all such herds have been officially tested two or more times .- Dr. M. H. Reynolds, University Farm, St. Paul.

# The Dairy

PASTEURIZATION OF MILK AND CREAM IN THE HOME.

By J. H. Frandsen, Agricultural Experiment Station, Lincoln, Neb. When it is not possible to obtain milk from a source absolutely above suspicion, it is desirable that it should carefully pasteurized (that is, heated to a temperature varying from 150 degrees F. to 160 degrees F. for it least 20 minutes) before being used for food purposes, particularly if it is to be used for children. Much of the milk sold in the large cities frequently contains large numbers of bacteria. While it is true that most of the germs in milk are harmless, it is a fact that dangerous disease germs sometimes gain access to the milk supply.

Milk may contain germs of typhoid, diphtheria, tuberculosis, and other diseases, especially if either the cows or any of the people handling the milk are suffering from these diseases, These germs do not in any way change the appearance or composition of the milk, hence their presence cannot be detected by any of theordinary methods of inspection, yet when such milk is introduced into the system a susceptible person, they may multiply very rapidly and in this way seriously affect the health of the person consuming the milk.

Meaning of Pasteurization.

Pasteurization—the name derived from Pasteur, the discoverer of this method of treating liquids-is simply the heating of milk to a moderately high temperature followed by rapid cooling. This process when properly arried out will destroy any diseaseproducing bacteria that may have gained access to the milk, including those causing intestinal disturbances in children, and enough other germs to retard the souring of milk (or cream) without injuring its flavor or keeping qualities. Pasteurization can be accomplished in the home by the use of either of the following simple

Best Method of Pasteurization.

Milk can be pasteurized most efficiently in the bottles in which it is received. To do this a small tin pail with a perforated false bottom, can be used. If a special pail is not at hand, the same results can be secured by using an ordinary tin pail with an inverted pie tin placed in the bottom of the same. This false bottom is placed in the pail so as to permit circulation of water and prevent bumping of the bottles. An accurate thermometer should be placed in the water or in one of the bottles. Set the bottles of milk in the pail and fill with water nearly level with the milk in the bottles. Place the pail with the milk bottles on the stove and heat until the thermometer indicates a temperature of from 150 to 160 degrees F. The pail and bottles should then be removed from the stove and allowed to stand 25 minutes in the hot water. Now remove the tover and place the pail under a cold water faucet, allowing the water to run slowly into the pail. Continue until all the hot water has been replaced with the cold water and the temperature of the milk has been reduced to about that of the water. This is the cheapest and most efficient way of cooling and wil lalso prevent breaking of bottles. The milk can then be conveyed to the refrigerator and placed on ice until required for use.

Most Desirable Method of Pasteurizing Milk for Babies.

Whenever it is necessary to use cow's milk in place of mother's milk for the feeding of infants, it effectually safeguards against contamina-

tion and greatly facilitates matters to use a special bottle. The special features of this bottle are a wide neck and rounding corners, enabling the bottle to be easily cleaned. Being made also to withstand changes of temperature, it may be readily used for pasteurizing the milk. During the process of pasteurization and until feeding time, a clean cotton plug can be used in place of the rubber nipple, thus preventing injury to the rubber and keeping the milk free from fresh contamination before being fed. With a sufficient number of bottles for the baby's entire daily ration all may be prepared at one time. Then when feeding time comes the bottle to be used may be taken from the refrigerator and reheated to the proper temperature, the rubber nipple slipped on-and it is ready for use.

It is well to remember that pasteurized milk should not be used for the feeding of children after it is 24 hours old.

Pasteurizing Without a Thermometer. While most satisfactory results are secured by heating the milk to the proper temperature and holding it at this temperature exactly the desired time, some people prefer an apparatus which does not require as careful watching as the method previous de-scribed. For such people the Strauss Pasteurizer is perhaps the most satisfactory device that can be suggested. He gives the following direction for the manufacture of a home pasteurizer, six pint bottle size:

Height of pan......14% inches Diameter of pan......101/2 inches Distance of top of bracket

from bottom of pan.... 61/8 inches quarts Amount of water..... 9 If there is no objection to the slightly cooked flavor, the process of pasteurizing (heating the milk or cream) need not be so carefully done. All that is necessary is to place the milk or cream in a double boiler and bring to the scalding point, and immediately cool. This process will kill germs present fully as effectively as other methods described. The only objection is the fact that some physicians believe that milk that has been heated to the scalded point is rendered slightly less digestible than if carefully pasteurized at a lower temperature and for a longer period of time, as previously suggested.

At the Pennsylvania and Vermont experiment stations, they experimented with old process oil meal and cottonseed meal as feeds for dairy cows. As a result it was found that a pound of cottonseed meal was slightly more valuable than a pound of oil meal. There is very little difference between the two feeds, however, and we are inclined to assign to them equal value. Under some conditions we would prefer oil meal, because of its loosening effect upon bowels. For cows just before and just after calving, we would prefer oil meal to cottonseed meal. When the roughage consists largely of such constipating feeds as corn stover, timothy hay, etc., we would prefer oil meal to cottonseed meal. But if there is silage in the ration, or in alfalfa or clover is part of the roughage, or if considerable amounts of bran are being fed, we certainly would prefer cotprices. Cottonseed meal generally costs less, pound for pound, than oil Johnson, auctioneers. meal, and under average corn belt conditions is a slightly more economical milk producer. But care must be taken that only the best quality of cottonseed meal is fed. It should be added gradually to the ration, and we would not care to feed more than three pounds of it daily to the average

relish. All who advertise in this paper are reliable.

### Towers' Surface System

Corn Prize Winners of Illinois, Iowa, Minnesota RESPECTIVE YIELDS PER ACRE WERE: Earl Zeller, Cooper, Iowa, 141 Bushels Ivan Houser, Farmer City, Illinois, 123 Bushels Chester Yarnell, St. James, Minn., 102 Bushels All Used TOWER SURFACE CULTIVATOR As also did I. E. Proudfit, of Altoona, Iowa, winner Grand Sweepstakes Corn Prize, Ames, Iowa. MR. FARMER:—For 1913 is our name "TOWER" en your cultivator tongue? Get our Free Booklet. Write Today. A Postal Brings It. We Are the Manufacturers.

NOTES FROM AN ILLINOIS FARM.

Cultivator

Editor RURAL WORLD: more we want to say, "Don't push those colts and boys too hard." It is hard for some to realize how soft they

We have been plowing all week, but though we have three pretty good aged mares, we have not done more than two-thirds of a full day's work. We never had a team sweat so in February; in fact we unharnessed and cleaned them well at noon as we always do when they sweat.

We hear a great deal about fall vs. spring plowing, but we prefer winter plowing:

First, because there is time to destroy worms and insects, and the spring rains will settle the furrows. Second, there is not so much leaching and washing.

Winter Plowing.

Many of my neighbors say, "Plowing! isn't it too wet?" We answer that there is water in the furrow in low places, but we tie up the horses' tails and drive right through. We are not afraid of injuring land by plowing wet if it is sure to freeze a few times after plowing. One neightold me that he would rather pay a man a dollar a day to sit in the house than to plow now. However, this neighbor will have to buy corn very soon to feed his work teams.

Since writing above we were asked to go about five miles to act as clerk at a sale. There was a very high, cold wind which made it an unpleasant job. In fact I would rather have done the work of the auctioneer than of clerk, yet he received \$32 and I received \$2. A team of Percheron mares brought \$750, which looks big to us "Egyptians," though they are

said to be registered somewhere.
Wants Lyon's Seed Corn.

I was telling some friends the other day of my Lyon seed corn. One of the most progressive said, "Let me give you a check and you order five bushels for me." I told him that he could order it as well as I. "Yes," said he, "but maybe he will send better corn to you than to me." In order to make sure of the order for Mr. Lyon I took the check.

AGRICOLA. Feb. 25.

#### SALE DATES CLAIMED.

March 11-J. T. Johnson, north of Mexico. Mule sale.

March 13—J. D. Bates, three miles southeast of Santa Fe. Dock Biggs, Ed Atchison, Ed Underwood, auctioneers.

March 14-I. T. Van Note, adjoining tonseed meal to oil meal at current Fair Grounds, Mexico. Commercial Dairy Show Sale. J. G. Ford, J. T.

> March 20-J. W. Claterbuck's sale of registered Saddle stallions and mares, jacks and jennets. New Bloomfield, Mo.

> April 17, 18 and 19-Missouri Special Sales Co.'s annual sale of high grade saddle and harness horses, Mexico,

The Mississippi Railroad Commission has ordered transportation compa-People read advertisements with a nies to maintain, at their own expense, telephones in all railway stations. Mississippi is progressive.

#### IS THE PRESENT GENERATION MORE RUGGED?

J. D. Tower & Sons Co., 5th St., Mendota, Ill.

(Continued from First Page) they were each dipped again, and this process continued until they were of the required thickness.

It may be said that our ancestors were more hardy and rugged than people of the present day, but so far as my knowledge extends there was apparently but little difference. We often hear of overworked women nowadays, but certainly they have an easier time of it than many of those women of old had, who. besides rearing numerous children had household duties galore in the preparation, coloring and making up of large quantities of linen and woolen fabrics into clothing, bedding and numerous other articles. The age of inventions commenced about 1850 we may say, and previous to that date and for some time after, all sewing had to be done by hand, and the manufacture of home-made clothing from start to finish was a laborious job. I have in my house now several coverlets of superior texture, which my mother made up many years before I was born, and which are probably more than four-score years old. One of these covers will not stand washing, but others are in a good state of preservation. People that we show them to are surprised to see how well they were made up.

J. M. MILLER.

A cablegram dated February 22, 1913, from the International Institute of Agriculture, Rome, Italy, has been received by the United States Department of Agriculture, giving the following information: "The estimated production of corn in Argentina, this season is 192,842,000 bushels, or 66.5 per cent of last season's production.'

Ask your neighbor if he is taking COLMAN'S RURAL WORLD. If not show him your copy and ask him if he can afford to be without its help for 50 cents a year. By doing this you will be doing him and us a favor.

IF YOU WANT TO

# BUY, SELL, EXCHANGE

In the line of Breeding Animals, Soeds, Nursery Stock, Eggs and Poultry, Machisery, Implements or other commedities and Real Estate, or if you are in need of work or require help of any kind
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You can tell your story at a very low east, as the rate is but ONE CENT FER WORD per insertion, the name and address to be counted as part of the advertisement. Each initial or a number counts as one word. Cash must accompany each order.

Everybody reads the Want Advertising Department. If you use this department if you use this department to bring your wants to the attention of our readers, surely you will find someone who can satisfy them, and it costs so little.

USE THIS ORDER BLANK And Send it With Copy for Ad. To-day. COLMAN'S RURAL WORLD.

Inclesed please find | ..... for which insert my.....word advertisement (at 1 cent a word) as written on the sheet attached, in your WANT DEPARTMENT of COLMANS RURAL WORLD, same to appear for......weeks, starting with your earliest possible issue.

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### FARMERS' EQUITY UNION

NATIONAL HEADQUARTERS

GREENVILLE, ILLINOIS

NATIONAL OFFICERS

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  8. Charles Kraft, Odessa, Minn.

#### Our Slogan: "Farmers Must Be Co-operators"

SUPPOSE THE WORLD WAS ALL point now). You would say on this EQUITY.

Let us suppose the world all Equity, no middlemen all men that "oversee" the disposing of production of all kinds to consumer Equity managers, hired by the men who had the product to We will suppose that all things raised on the farm would be through the farmers' Equity managers be made into finished product before offered to consumer, that is wheat into flour, hides into shoes, etc. Under this supposition the farmer would have something to do to "mind his own business." This is why you must have good managers, for they can do for you all, what you can't do individually. This plan would solve who would sell the food and clothing of the world.

The next greatest thing along production is the product of the mines (which underlies the farmer's farm). Steel would be made into machinery before melting, lead finished and coal ready to use when mined, except it will be under Equity. Well you say, screening and washing. We can say the greatest comforts and necessities of life come from farm and mine.

Right here we notice the queer state we have got into, and that is, the men who own the farms do not do all the farming, and the men who own the mines do very little mining. Talk about managers-well, most of the mines are now run by managers; if we go to a mine we inquire for the superintendent or manager.

There is another great business we have overlooked in our talk about production and that is the business of transportation such as railroads and ship lines.

This is another business that is mostly run by managers. The men who own the roads and ship lines hire managers to run them.

But we are supposing everything on Equity plan farm, mines and transportation, that is, the farmers owned their farms and finished their produce, and mines do the same and farm and mine both owned transportation under their management.

Here pops up that very hard question to most of us, and that is, we don't all own the farms that farm and not many of us own the mines that mine, and so, not many of us own the transportation facilities that transport and here our imagination stops for it's hard it with a written agreement signed by for many of us to see with the mind's eye something entirely different from what we ever have seen.

I believe all of our political parties could be improved to conform more with true Equity principles, and we are seeing a great advance in politics in all parties. But Equity people don't talk politics; they talk Equity, so we will let our imagination run on, that all is on Equity principles under the people's managers as above stated.

But we must get over that bridge that all who own farms do not farm and not many who own mines, mine or those that own transportation have anything much to transport.

many is the beauty of Equity for Equity to me, means for the people to do for themselves what the few are now having us do for them.

Now here we go on Equity plan: Let all who own farms farm and all who own mines mine and all who own transportation transport.

(Remember we are crossing the hard

sudden jump some one is bound to suffer. Yes, they would if this was sudden. All would suffer who didn't own farms and farm or didn't own mines and mine or own transportation and transport.

Of course those that owned farms, mines, or transportation and didn't farm, mine or transport would have something to exchange for food on this sudden change but those who wished to toil at farm, mine or transportation and had more of these as his, would suffer unless he be a servant for one of these.

I don't believe there is any of us who believe in dividing up, so we won't imagine that. So now we are divided into four (4) classes, owners who work, owners who do not work, and servants who must work for another because they own neither farm or mine or transportation, and fourth, managers. Well you say that is the way it is now. Yes sir, that is the way What is there to Equity? The difference in Equity is, the owners of farm as do the owners of mine also of transportation have managers that pro rate back all net earnings. Well, you say, the managers now pro rate back all net earnings to Morgan, Rockefeller, etc. Yes, but right here is the Equity point; if the farmer who farms will sell his finished produce direct to the consumer and even go so far as to place in transportation if it were necessary, which we can easily see could be done (the same with the mine), this would cut out a non-producer and place transportation where it should be, a tool to aid the producer.

But that servant question pops up in cur mind for when we say Equity we mean Equity to all.

How is the servant to receive Equi-VIRGIL WIRT.

Virden, Ill.

(To be continued.)

#### THE FARM NEIGHBORHOOD ROUND TABLE.

By Harry P. Lowater. H. P. Retawal: Our system of buying co-operative tools words nicely; much better than the common method. This year we have bought five costly tools by one of us buying and owning certain others to give a certain amount of work at an agreed price. All tools are in better shape and at much less expense to everybody.

These machines are of such a size and nature that they do not belong to our tool-shop group; yet they should be in the neighborhood for a general benefit.

One reason we have in having only one owner with co-operative workers s the proper care of the machine and the proper arrangement of its services for the best interests of all.

Father Pierce: That brings up the question of farmers' credit. Our associated credit, through the first nation-To my mind's eye this hard point to al bank at the Valley, works well and must be something of the same nature the papers are talking about. For example: We needed a modern potato digger. The committee authorized Mr. Stanley to buy it, after getting a pledge for sufficient work. He did not have the funds to invest or wished to go in debt to a machine company and pay their interest. The committee au- per cent on the \$10 they have actually sumer brooms on golden rule Equity

thorized him to draw on our credit at the bank at four per cent for two years "on or before." You and I will help pay that interest in hiring the tool; and at the same time have our surplus money at work. The way we get the funds shows our trust. Such deposits are made as each member can afford in the name of the tool committee at the bank. The bank pays us interest on that fund on monthly balances at the end of each calendar month. No money can be withdrawn except on the joint order of the full committeethree. As a result we hold real estate mortgages and notes drawing four per cent besides what the bank still owes us. As our individual deposits are not alike in amount the committee keeps a card index showing the amount of the receipts held by individuals and divide. semi-annually, the interest received in proportion. Any one is at liberty to withdraw his company money at any time as others are ready to replace his share. We find safety to be a drawing factor. How we raise a fund, if there is no bank credit, is our own scheme, and another chapter.

(At another time, in separate papers I would report how the Round Table worked for the best interests of the neighborhood, hired help, bought and sold, improved their stock and interested the young people.-Author.)

#### INDIANA FARM LOAN PLAN.

The Indiana farm loan plan means slavery for the producer. The insurance companies and other big Wall street interests have got our money and we have got the experience and should use it to free ourselves from the octopus that is devouring the product of our toil.

Now they propose to loan us the money at 6 per cent, but before we get the money we will have to insure the property to perfect security, thus they will be sure of both the insurance and interest. We produce the wealth and they get it. If we don't do something to relieve the masses we will have socialism in its worst form. While they have some good points the larger part of their ideas are visions. Legislation has been so far all in favor of the large capitalist. Isn't it about time to favor the producer or at least give him an even chance. I would suggest first a law making each county an insurance organization, everything to be assessed at its real value. Property should be classified, the loss paid in proportion to the risk, adjustments to be made by the board of supervisors. Should hog cholera be within the county or at its borders it should be the duty of the county farm adviser if they have one to see that all the hogs in the county are vaccinated in ample season to save them and also deal with blackleg and other contagious diseases with the same promptness, thus while being a great saving to the farmer it would save insurance to the county thus outside of the county farm adviser work (which will be worth many times its cost to the farmer) there would be absolutely no expense except there be a loss, and all of the property in the county would be insured. The bulk of our losses would add a little to our taxes but the saving to the people of insurance would be great.

Now for the farm loan part of the game. I understand there is a bill in contemplation to issue 4 per cent bonds to get money to loan to the farmer.

That is another scheme of the cap-

With every one thousand dollar bond Uncle Sam gives the use of \$1,000 in ready this fall to supply potatoes and national currency for which the bondholder pays 1 per cent the cost of printing the currency. Now the would loan us that same \$1,000 in currency which we gave them the use of and hold the \$1,000 bond which has cost them 1 per cent just \$10 and we will pay them 4 per cent on the \$1,000 which is \$40 per annum which is 400

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invested and Uncle Sam has spent the \$10 printing the currency.

Then we would secure Uncle Sam with municipal or real estate giltedge security. Now what puzzies me is this, Why isn't it business to loan the farmer that national currency direct instead of acting that farce with the capitalist. Will some one kindly explain. There are many plans suggested for disbursing this money. I would suggest that Uncle Sam could run a bank just as well as can a corporation and one bank in a county would accommodate the people very well.

The County should be responsible to the State and each State responsible to the United States. We could well afford to pay 4 per cent for the use of he money and this interest divided up between the town, county, state and nation, would reduce our taxes perceptibly. If this is business why not work for it?

The capitalist goes to Uncle Sam for what he wants and gets it, while we single handed are powerless to do anything. Let us organize and insist on equal rights to all and special privileges to none. I think we have an administration that isn't hampered with promises and if we make a strong plea for equal rights I think would give us what is right.

G. W. WRIGHT,

Secretary, Haviland Equity Union.

#### ARE YOU READY FOR THE CON-SUMER.

Editor RURAL WORLD: The consumer wants to buy their coal along with Equity's order next fall: that is, place their order along with Equity. This will be good for Equity as the consumer's order will be many times what Equity's will be. The consum er will also buy their strawberries from the grower through their deal-Centralia, are you ready for this deal, or will consumer have to buy them after you let them go?

It seems that the consumer will have to get their flour from the mill instead of the Farmers' Equity Union, as the Equity people seem to think it's not time to hire their wheat ground into flour. Is there no local that can master this situation?

Also, will it continue to be neces sary for the consumer to have men out to buy their poultry and eggs?

Is there not some local that can get in line with the consumer and sell direct to consumers' dealer instead of the country cross road?

Mr. T. L. Line, will you sure be cabbage direct to consumer'

I tell you I am glad I put ten bush els of your potatoes in my cellar last fall. Mr. Line you do not have to ship in car load lots to save us mone! for there is such a difference in prices We would like to know if Liberal, Kans., the banner local, and in the broom corn section cannot sell conu ti te B ta w fe h ti

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The reason I say this is I fear Liberal thinks we don't sweep down this way. We have broomcorn growers closer, but always Equity first if she will be first. First chance at least.

I tell you just because you are mem-bers of Equity Union and won't do business, you must take advantage of your being an Equity member.

If you live in any section where

you can finish something for consumer, let us know about it. Begin now to inform consumer, and if you have a crop failure you will be excused.

Some one may say, well, Wirt is for consumer. Yes, I am. Equity to consumer as well as to the farmer, but my heart is in the wrong place for Mr. Middleman.

I believe you all understand me fully, and I would be glad to hear from you, also will answer any ques-tion if you will enclose a stamp for a reply. I will have to refuse to write anyone who does not enclose a stamp. I have spent a lot of money in postage for people's questions in last year and a half, and I must for self-protection stop it.

As it will soon be time to sow your crops, I hope many will get in line with consumer and have Equity business instead of middlemen business. If any of you understand how you can get rid of the middleman and let him handle your every crop, you can see more than I can.

I stand for "direct from farm to consumer," and will do everything I can to help the cause.

If any local hasn't business enough to finish its produce for consumer, I will say you will be one who will suffer and if consumer must seek elsewhere for finished produce, you cannot blame them.

Believing you all understand and hoping your crop will be handled in every way along Equity principles. Remember consumer has a pretty hard row if you place your produce in the hands of middlemen to rob consumer also yourself.

I say Equity for farmer and Equity for consumer, but out with the mid-V. I. WIRT. dlemen.

Virden, Ill.

#### LINE UP, BOYS.

Editor RURAL WORLD: Local No. 25 of the Farmers' Elevator Co. at South Whitley, Ind., held a meeting March 1, 1913, for the purpose of electing a board of directors, and lining up matters in general. So line up boys, to put the organization back on its feet to what it was intended to be when it was organized. Back to the original plan that was talked and explained to the people while organization was in progress. A few of them who set their fertile heads to work at the time of organization, and ever thereafter, either to rule or ruin, the good cause of co-operation, in the way of buying and selling mer-chandise. It should be so arranged as to conform to the original plan or idea of co-operation. No one should offer his stock for sale at a discount, stick to the job, we need you all to help banish the undesirable, features, or creatures, as the case may be. (Perhaps both.) And in a few years we will have a good thriving business, that will do us all some good, and harm no one. Yours for Equity,
A STOCKHOLDER.

#### TO FARMERS EQUITY UNION MEMBERS!

If you are interested in building up your union by educating those outside your ranks, send in the names of anyone you think would be interested in your aims and we will send them WORLD, the Farmers Equity Union of mutual credit. official paper.

"THE TYRANNY OF THE TOWN."

Can any good thing come out of Ireland? Certainly. None of us has ever seriously questioned it as the fact is too obvious. But to me, and perhaps to some others, the fact that in a titled Irishman the American people have an agricultural teacher of surpassing ability, is as surprising as it is pleasing. This teacher is Sir Horace Plunkett,

agricultural reformer and founder of the "Irish Agricultural Organization Society." In a recent number of the Youth's Companion entitled "Co-operation and Country Life" in which he records some observations and makes some suggestions concerning rural life in America that are so practical and timely that a brief synopsis of it is here presented for the benefit of RU-RAL WORLD readers, and particularly, of Equity Unionists.

In order to remove the suspicion that Mr. Plunkett (Please let me call him that) is a mere theorist and a meddler we may say that he was a farmer and a rancher in Nebraska and Wyoming for ten years-from 1879 to 1889—and that he has spent his annual vacation in the United States every year since. He is a very close student of American farm life and a few years ago wrote a book which he called The Rural Life Problem of the United States"

Ireland is almost exclusively an agricultural country and those interested in the advancement of their loved 'Emerald Isle" saw that they must begin with the farmer. Twenty-five years ago most of the farming land was owned by landlords and worked by tenants. Between these landlords and tenants there was a continuous warfare for the ownership of the land, and time and energy which should have been employed in improving the condition of farms and farming was wasted in this unfriendly struggle. Now a plan is in operation which in a few years is to make the tiller of the soil the owner of the soil.

Mr. Plunket and his co-workers insist that farming is a three-sided proposition, namely: an industry, a business and a life. The industrial, commercial and social phases of farming all needed to be advanced but it was found necessary to begin at the less interesting end-better business. With better business methods in vogue, especially in the matter of co-operative selling of farm produce and the buying of things not produced on the farm, the farmers would be able to put into use the knowledge they already possessed relative to the practice of farm-

The Irish agriculturists saw that they were habitually beaten in the British markets, by the American farmer, because of his cheap land, and by the Continental farmer on high-priced land because of his better business methods in disposing of his products. In other words, the Continental farmer co-operated in buying and selling so that the smallest farmer in the community could sell as advantageously and buy as cheaply as the largest farmer.

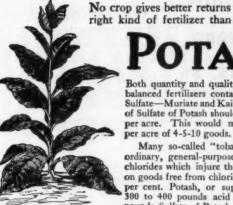
These reformers found that they had a very hard task in teaching co-operation in a country rife with political and religious discussion, but within the twenty years in which this work has been going on they have succeeded marvelously. To quote Sir Horace: "All creeds and parties leave their religious and political differences outside, and work together. More than nine hundred farmers' co-operative societies, with almost one hundred thou sand members, are doing a business of about fifteen million dollars a year."

The matters in which these Irish farmers co-operate are the operating of creameries, flax scutching-mills, ownership of costly machinery, buying things needed on the farm, selling prosample copies of COLMAN'S RURAL ducts of the farm, and the providing

WITH POTASH

## TOBACCO

No crop gives better returns for using the right kind of fertilizer than does tobacco.



Both quantity and quality are improved by properly balanced fertilizers containing Potash in the form of Sulfate—Muriate and Kainit will not do. The amount of Sulfate of Potash should be from 200 to 250 pounds per acre. This would mean 1000 to 1250 pounds per acre of 4-5-10 goods.

Many so-called "tobacco fertilizers" are merely ordinary, general-purpose mixed goods, containing chlorides which injure the quality of the leaf. Insist on goods free from chlorides and containing 10 to 12 per cent. Potash, or supplement the manure with 300 to 400 pounds acid phosphate and 200 to 250 pounds Sulfate of Potash.

**POTASH** PAYS

Write to us for prices of Potash Salts and for free book containing fertilizer formulas and directions.

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agricultural conditions in many countries and his experience in his own country have convinced him that American farmers must entirely re-construct their system. They must organize and co-operate, not so much to protect themselves from the competition of farmers of other countries as to defend themselves against people engaged in other pursuits in their own country. And here is where I get the heading for this article, "The Tyran-ny of the Town." If I should use this phrase first hand in an effort to describe the attitude of the town in relation to the country, I should likely be called a knocker and looked upon as a somewhat undesirable citizen, but I am writing only of what Sir Horace Plunkett says about us. However, I shall drop this comment in passing: it is quite certain that he is a very keen observer and a disinterested critic and that he is very fortunate in the selection of a phrase

In speaking of the high cost of living, he says that although tariffs and trusts and transportation monopolies are vaguely held responsible it is his opinion that the lack of co-operation among farmers is the chief cause of it. Unorganized farmers have no control over the distribution of their produce, and this produce falls into the hands of a swarm of middlemen who tax both producer and consumer all that they will bear. He says that farmers have not as much political influence as the importance of their industry demands, because they are not organized. American country life is backward because the farmers have not learned the art of combining.

which so exactly fits his thought-

and ours.

Sir Horace's suggestion as to how to conduct cooperative enterprises are so nearly identical with our Equity plan that one could easily conclude that our national organizers had con-ferred with him before writing our constitution and by-laws. Whether they did or not, the fact so eminent an authority as Mr. Plunkett fully indorses our plan, adds much to our confidence in the stability and final success of our own organization. now summarize his plan and close with apologies for the mutilation of a very simple, sensible and helpful article.

Profits and risks distributed among participants in proportion to invest- Woman's World (Magazine) of husines with the society; not more than six per cent on capital invested: divide profits among members in proportion to the business that each has done; one vote fo reach member.

Mott, N. Dak. H. W. WRIGHT.

You cannot find a buyer without letting him know what you have for sale. Mr. Plunkett says that his study of I cent a word in our want columns.

EUGENE W. STAPF, CONSULTING ELECTRICAL ENGINEER
Designer and Installer of Storage Battery,
Electric Light and Power Plants for the
City and Farm.

402 LACLEDE BLDG., ST. LOUIS, MO.

### 500-Acre Farm for Sale

all rich level river bottom land, above overflow, and only 5 miles from railroad town; on two public roads and telephone line. There are 200 acres of this in cultivation and balance in timber. There are 10 houses and a store building. People are all white and native Americans; most of them are from filinois and Missouri.

This property can be bought for \$40 per acre if taken this month; ¼ cash, balance to suit purchaser. I have two smaller farms for sale also.

L. G. CROWLEY,
Black Jack, Ark.

#### **Electric Lights in House** and Barn

furnished by Storage Battery, charged with a dynamo run by the little farm engine while pumping, grinding, etc. Anyone can take care of the simple plant. After once installed, practically no expense. Put dynamo by the engine (location immaterial) and battery any other suitable place. No fires or explosions—not even a shock! Clean and safe!! Best insurance for your buildings. Loss caused by fire from coal oil lamp or lantern is ten times the cost of a complete Electric Lighting Installation. Think and act quick! Literature and estimates free. Let me tell you what a few hundred dollars will do for you.

H. J. WOBUS, Electrical Engineer,

H. J. WOBUS, Electrical Engineer, 915 Locust St., St. Louis, Mo. Electric and Water Systems. Water Wheels and Rams.

OUR LIBERAL CLUBBING OFFERS. COLMAN'S RURAL WORLD,

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Course of Lessons on Real Estate and RURAL WORLD one year, \$1.00

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and RURAL WORLD one year, \$1.0 American Magazine with RURAL WORLD, both one year for \$1.75 Farm and Home and RURAL

WORLD, one year each, \$1.00 Rust-Proof, Antiseptic Oil-Pad Razor and RURAL WORLD one year, \$1.00

We will renew your subscription and send the paper for one year to a friend or neighbor for \$1.00.

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#### MISSOURI BARGAINS.

280 acres; 200 in cultivation; fertile bottoms, 80 acres upland in good timber; tract practically free from stones; 4-room house; several stock stables, stock shed for 80 head; liberal terms; price \$50 per acre.
240 acres; 160 in cultivation; 130 acres of valley land; 2 sets of improvements; near county seat; price \$45 per acre.
240 acres; 60 acres cleared; 6-room rock house; small outbuildings; near station; price \$15 per acre; liberal terms.

station; price \$15 per acts, terms.

200 acres; 100 acres in cultivation; 40 acres in sheep pasture; 60 acres in good timber; new 8-room house; good stock and sheep barn; price \$40 per acre.

204 acres; 160 acres in cultivation; 6-room frame house, good barn and outbuildings; price \$37.50 per acre; will trade for city property.

JAS. E. HOLLOW, JR., Cuba. Mo.

IDEAL LOCATION.—Failing health forces sale of fine 175-acre suburban farm. "The Maples," adjoining the city limits of 16,000 town; big barn, silo, water works, etc.; ideal location for dairy or breeding farm. Hinton Jackson, Owner, Nevada, Mo.

FOR SALE—Do you want a 360-acre stock ranch, only 60 miles northwest of St. Louis on the Wabash Raiiroad? All fenced, fair buildings, well watered; only partially improved at present; asking price, \$30 per acre, but submit your offer; must be disposed of this month; might accept exchange as part payment. Call or address A. S. Loomis, 909 Chestnut st., St. Louis, Mo.

FOR SALE—A good grain stock or dairy farm containing 230 acres, 140 acres bottom in cultivation, the rest in timber; small creek through farm that furnishes stock water all the year, but does not overflow. Close to county seat, fine college and railroad town, near good schools and churches. For particulars address owner, Box 35, Lutesville, Mo.

FARM FOR SALE—My 85-acre farm, located ¼ mile from town. For further particulars address T. T. Potts,

FOR SALE—Mo. farm of 204 acres, situated in one of the best counties in state on rock road, 15 minutes, drive to count seat; fine schools, churches, etc. Can be sold in one or two pieces. No trade; no agents. L. W. Marshall, Lexington, Mo.

GOOD ILLINOIS FARM for sale cheap; oil well close. Wm. Jackson, 5362 Goodfellow Place, St. Louis, Mo.

80 ACRES FINE BLACK PRAIRIE LAND for sale or exchange for horse, stock or young mules; land is very fine; located in best valley in Oklahoma; must see to be ap-preciated. Yours for a deal. Frank L. Barney, Maysville, Ark., R. R. 1, Box 20.

480-ACRE FARM—A snap if taken soon; 9 miles south of Sidney, Neb.; good water and wind mill and building all put up in less than five years; 300 acres broke and 300 bush seed wheat on farm; wheat made 26 bushels last fall; this is a new farm all ready to move onto this spring. Write D. R. Jones, Sidney, Neb.

FOR SALE—200-acre Alfalfa, Grain and Stock Ranch; improved; \$65 A.; ½ down; terms on bal. No better bargain under Gun-nison Tunnel. Joel Hayden, Montrose, Colo.

FARMS FOR EXCHANGE and ten-ant wanted; Illinois and Missouri. Wm. Jackson, 5362 Goodfellow Pl., St. Louis, Mo.

FOR SALE OR EXCHANGE (No Farms)—160-acre farm, one of the finest stock, grain and fruit farms in Southern Missourl. No waste land. 4,000 fruit trees, mostly apple, 8-20 years; engines, saw, canning outfit. On 2 main country roads, 2½ miles to railroad town; \$5,000; easily worth \$8,000. C. F. Ruby, Mountain View, Mo.

#### SEED CORN.

REID'S YELLOW DENT SEED CORN.
Some of our State and National winnings: Grand Champion 10 ears, Missouri, 1911; Champion to ears, Young Men's Class, Missouri, 1912; best 20 Yellow, Missouri, 1912; Champion 10 ears Young Men's Class, Missouri, 1912; Champion 10 ears Yellow, open to world, National Corn Show, 1911; first, Missouri Section, National Show, 1913; fourth on Yellow, open to world, National Corn Show, 1913; fourth on Yellow, open to world, National Corn Show, 1913; fourth on Yellow, open to world, National Corn Show, 1913; Write for cate tional Corn Show, 1913. Write for catalogue and prices. J. G. Douglass, Shelbins, Mo.

CAREFULLY selected and properly dried pure "Golden Beauty" Seed Corn. This is an exceptionally fine golden yellow corn, ears from 9 to 12 inches long with small cob and large grain, indicating strong germ. Price, \$2.00 per bushel, tipped, shelled and graded. Sample sent by mail on request. Wm. C. Kriege, Edwardsville, Ill.

#### CLOVER SEED.

PLANTS FOR SALE.

Sweet Clover at reasonable prices.
now for early spring delivery. Also, inoculating soil, for Alfalfa and Sweet Clover inoculating purpose; also seed. With Plants success is certain. Try them. Can be sent by parcel post.

Mrs. J. T. Mardis & Sons.

SWEET CLOVER SEED—Large, biennial cultivated variety, for hay, pasture and fertilizer. Price and circular how to grow it sent free on request. Bokara Seed Co., Box D., Falmouth, Ky.

SEEDS—Alfalfa, \$6; timothy, blue grass and cane, \$2; sweet clover, \$9. Farms for sale and rent on crop payments. J. Mulhall. Soc City, Ia.

#### OATS.

FOR SALE—Regenerated Swedish Select Seed Oats, 75c a bushel, and Duroc Jersey bred gitts, \$20.00 and up. L. F. Hansen, Aberdeen, S. Dak., R. No. 4

#### TOBACCO.

FINE LEAF TOBACCO for Sale. Two are old. Send stamps for free samples. W. L. Parks' Tobacco Co., Adams, Tenn FINE

#### LIVE STOCK.

TWO HOLSTEIN BULLS FOR SALE.
Can be registered. One 2 past, one
about 6 months old. A bargain.
A. M. Luttry, Lebanon, Lebanon, Mo.

POLAND CHINA PIGS—For sale at weaning time and pigs big enough for service at cut prices, for 30 days; either sex. J. B. Straight, Winthrop, Ark.

CHERRY R. C. RHODE ISLAND REDS.— Eggs from exhibition stock \$3.00 per 15; range \$1.00. Orders booked for baby chicks. Mrs. Wm. Price, Litchfield, Ill.

KELLERSTRASS WHITE ORPINGTON
EGGS, \$1 per 15; good stock. E. F. Bowles,
Barnett, Ill.

ELM BRANCH FARM—Our single comb white leghorns are bred up to heavy egy production; mammoth Pekin ducks (Rankin-Japanese strain); large and vigorous eggs, \$1.00 per setting; 100, \$5.00. S. S. Hinerman, Marshfield, Mo.

BARRED PLYMOUTH ROCKS EGGS—For sale from high-scoring birds; 1 setting, \$1: or \$4.00 per hundred eggs. Mrs. J. B. Straight, Winthrop, Ark.

BARRED ROCKS—White Orpingtons; eggs for hatching; heavy laying strain, \$2.00 for 15; mating list free. C. A. Moxley, Tay-orville, Ill.

WHITE ORPINGTONS EXCLUSIVELY Eggs that hatch strong, vigorous chicks \$3.50 to \$10.00 per 15 from Big White Heavy Laying Stock. Few Cockerels and Pullets for sale. Our stock and prices are right. A square deal guaranteed. Ozark Strain, the kind you will eventually buy. Ozark Poultry Farm, Exeter, Missouri, Lock Box 25.

BARRED PLYMOUTH ROCKS.
No. 1 Farm Stock.—Price, \$1 per setting of 15.

MRS. C. D. LYON,
R. 1, Georgetown, Ohio.

S. C. WHITE LEGHORNS—Fine lot of lovely white cockerels. Quality high, prices low. Write Ernest Haynes, Prairie du Rocher, Illinois.

ROSE COMB WHITE LEGHORN EGGS from standard-bred yearlings. Two dollars for fifteen, prepaid. Quantity rates. Field Bros., R. 2, Cape Girardeau, Mo.

ANCONAS—Ideal farm chicken. Best layers, small eaters. Lays large, white eggs. My breeding birds are beauties. 15 eggs, \$1.25; 30 eggs, \$2.00. T. Z. Richey, Canneiton, Ind.

SINGLE COMBED RHODE ISLAND REDS—Free range, laying strain. Eggs for hatching \$1.00 for \$15; \$2.75 for 50; \$5.00 per 100. Mrs. Herbert Pyeatt, Canehill, Ark.

INDIAN RUNNER DUCKS—Quality finest; strong, vigorous; eggs, \$2.00 per 11; S. C. strong, vigorous; eggs, \$2.00 per 11; S. C. Buff Orpingtons, also first-class; eggs, \$1.50 per 13. Order now. Mrs. Mabel Feint, Cortland, N. Y.

MAMMOTH PEKIN DUCK EGGS for sale, 10 cents each, or \$1.00 sitting. Mrs. A. Brower, Rinehart, Mo.

#### HELP WANTED.

WANTED.—Young men and women to take our Bookkeeping and Shorthand Course; positions secured; diplomas granted; low cost; easy payments. Write to-day for cata-logue. Brown's Correspondence School, Freeport, Ill.

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#### RURAL WORLD WANT ADS. TO LIBERAL (KANS.) MEMBERS

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WANTED—A position as manager or over-seer on stock farm. Graduate of Short Course in Agriculture in Missouri University. Have farm experience. A. C. Hahne, New

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FREE catalogue bargains account room; leading varieties of fancy poultry and blooded farm stock, farm raised, farmers' price; Maltese cats, Shepherd dogs and lead-ing breed dogs and hounds. Wanted, fox cubs. Cupt. Mason, Kirksville, Mo.

50 LETTERHEADS and 50 Envelopes printed, 50 cents, postpaid. Meyer Press, 3217 Magazine St., St. Louis, Mo.

LACE CURTAINS, LACE BED SETS and Table Covers, direct from factory at wholesale prices. Fashions latest ideas. Send postal card for illustrated descriptive price list. You will be pleased when you get it. American Mfrs. Sales Co., Desk 19, Holland Bidg., St. Louis.

GUARANTEED—We sell the very best of Pianos, Brass, Wood-wind or string instruments at lowest prices. Instruments guaranteed. Repairing neatly done. Write for prices. O. Mohr Music Co., 4220 Easton Ave., St. Louis, Mo.

CATALPA SPECIOSA SEEDLINGS for sale. Prices and circulars how to grow them on request. Emil J. Meyer's Catalpa Speciosa Nursery, Cape Girar-deau, Mo.

AUCTION SALES offer immense opportuni-ties for profits. You can make \$5,000 a year in this business. Our book, "How to Conduct Auction Sales," tells you all about it. Fifty dollars' worth of information for 50c. Estab-lish a business for life. Descriptive circular Free. The Unique Selling Co., St. Louis, Mo., 302 Frisco Bidg.

the Thousand Agents Wanted to sell a Self-heating Sad Iron. Fuel and la-bor saver. Pay salary or commission. Agents make \$15.00 to \$20.00 per day. Write Imperial Sad Iron Co., Memphis, Tenn., Box 90.

IT'S USELESS, WITHOUT USEFUL, to try to get all poultry experiments and full report monthly of National Egg Laying Con-test. A useful, practical, sensible poultry paper, six months' trial subscription for 10 cents. Send today. USEFUL POULTRY IOURNAL, Trenton, Mo.

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man to act as our representative after
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All we require is honesty, ability, ambition and willingness to learn a lucrative business. No soliciting or traveling. All or spare time only. This is an
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"RATS AND MICE QUICKLY EXTERMINATED.

No cats, poisons or traps needed. Learn the secret and keep them away forever. Sure, yet perfectly harmless except to rodents. Secret originally cost \$100, but we will send it postpaid for only 25c."

The above advertisement has appeared in many magazines. I will send you the genuine receipt for this RAT AND MICE Exterminator (which I know to be 0. K.) and 20 fine assorted postcards for 12c. This is a Bargain. Address, Milton Boss, 4421 17th Ave., Rock Island, Illinois.

GOVERNMENT FARMS FREE.—Our 1912 official 132 page book, "Free Government Land," describes every acre in every county in the United States: It contains township and section plats, Maps, Tables, and Charts, showing inches rainfall annually, elevation above sea level by countles. The New Three Year Homestead Law approved June 6th, 1912, the 320-acre Homestead, Desert, Timber and Stone, Coal, Freemption, Scrip, Mining and other government land laws. Tells how and where to get government lands without living on it. Application blanks, United States Patent. All about Government Irrigation Projects and map showing location of each. Real Estate Tax Laws of each state, area in square miles, capital and population and other yearship information. Price 50 cents. location of each. Real Estate Tax Laws of each state, area in square miles, capital and population and other valuable information. Price 50 cents postpaid. Address COLMAN'S RURAL WORLD. This valuable book will be sent with new or renewal subscription to RURAL WORLD for \$1.00.

Thirty-six million ladybugs have been captured and caged for shipment by the California State Insectary, and will be sent to various sections of the state in order to save the melon crops. The ladybugs prey on the melon aphis, an insect that destroys the new vines. Hop growers will also be supplied with the insects.

We have inquiries for numerous things that could be advertised at 1 cent a word. Try a small ad.

Greenville Ill., March 4 Dear Sirs-I am anxious for a thorough canvass of the territory right around Liberal for members shares in the Liberal Equity Ex-Your territory will be cut change. off on all sides. I am organizing at Hugoton and Tyrone and I will also organize at Hayne and Forgon. You will need every farmer around Liberal to make a strong union. We must unite the trade of 200 farmers at Liberal and keep them united, and now is the time to do it. You have succeeded well for the first year. You can do as well every year if you will follow up the fine beginning with a thorough canvass of your territory at once. You have a fine talking point, You have succeeded the first year. Nothing succeeds like success. Strike now while the iron is hot. You want a good strong union at Liberal that will have plenty of capital and a good solid patronage. Get every farmer to put \$3 into the Equity Union and to take at least one share. Tell him what you have gained in one year. If he will join and take one share and patronize our Exchange we will give him three more shares and give him back the twenty-eight dollars in cash and after that give him back all the profit on his business.

We want every member around Liberal to work for new members. Get at least one new one. Work now before they get busy. Ten dollars will be given to the member who secures the most members by May 17, provided he gets ten or more new ones.

This entire letter applies to every local union in the United States. Every member ought to be a booster for the Equity Union. It will pay. The fifty-five local unions must give us ten thousand golden rule co-operators as members. Let us build the Equity Union stronger every day.

NATIONAL UNION. Per C. O. DRAYTON.

### EQUITY'S DEVELOPMENTS.

Editor RURAL WORLD: Ten thousand Equity people want coal and if they buy individually they pay, say, \$2 per ton at mine; if they each want ten tons, the ten thousand would use one hundred thousand tons and if bought as one purchase it could easily be bought for \$1.50 per ton or a saving of fifty cents a ton or \$50,000 on the whole amount.

Now an average size coal mine in Illinois will output about 2,000 tons a day so you see two months would easily output the 100,000 tons. This is to say that 10,000 people would contract for this amount but let Equity coal buyers grow to five times more or fifty thousand people they could use all the coal themselves that an average up-to-date mine would output in a whole year, for a mine must be idle part of the time for repairs.

So you see by centering your trade to one mine you become the means of the out-put of a mine and it is safe to say this means power, business power, and business to both parties, so much so, that I believe Equity would be the mine; be an Equity mine; that is, an Equity manager and pro rate back all net earnings. But until Equity grows to these things it cannot do these things.

We are in the contracting stage now and let us use our power that we may grow larger and become in a position for greater power.

This same law applies to your farm produce, for let the world know ahout 100,000 tons of flour or 100,000 bbls. of apples, etc., and you find and see and realize what organization means. It means everything good for mankind. Let us use this means and be men V. I. WIRT.

Please mention RURAL WORLD when writing advertisers.

Virden. Ill.

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